



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY FOR 1980

MQ-22Q(80)-5
Issued February 1982

SUMMARY OF FINDINGS

Total value of shipments of rugs, carpet, and carpeting decreased 3.6 percent in 1980 to \$4,913.8 million from \$5,099.1 million. Tufted carpet and rugs showed the largest

decrease, 3.9 percent, from \$4,805.3 million in 1979 to \$4,617.5 million in 1980. The average unit price for total carpeting increased from \$4.23 to \$4.64, while the unit price for roll goods increased from \$4.35 to \$4.79.

Table 1. RUGS, CARPET, AND CARPETING: COMPARISON BETWEEN VALUES REPORTED IN MQ-22Q AND ANNUAL SURVEY OF MANUFACTURES

Product code	Product	1980 MQ-22Q	1979	
			MQ-22Q	Annual Survey of Manufactures
2271	Woven carpet and rugs.....	197.8	200.4	204.3
2272	Tufted carpet and rugs.....	4,617.5	4,805.3	5,390.9
2279	Carpet and rugs, n.e.c.....	98.6	93.4	124.8

Note: The data as shown for the MQ-22Q and the Annual Survey of Manufactures are not directly comparable for the following reasons:

- (a) The MQ-22Q excludes companies that purchase carpet and rugs and dye and finish them. The companies' data are included in the Annual Survey of Manufactures.
- (b) The MQ-22Q excludes small companies, typically those with fewer than five employees, for which 1977 Census of Manufactures data were derived from administrative records of other Government agencies.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Richard Hanks, (301) 763-7809.

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Table 2. TOTAL SHIPMENTS OF RUGS, CARPET, AND CARPETING, BY QUARTER: 1980 AND 1979

(Quantity in 1,000 square yards; value in thousands of dollars)

Year and quarter	Quantity	Value
1980		
Total.....	1,058,404	4,913,844
Fourth quarter.....	269,907	1,286,639
Third quarter.....	246,290	1,152,448
Second quarter.....	254,327	1,167,474
First quarter.....	287,880	1,307,283
1979		
Total.....	1,206,030	5,099,090
Fourth quarter.....	317,784	1,375,713
Third quarter.....	309,750	1,309,453
Second quarter.....	299,117	1,272,327
First quarter.....	279,379	1,141,597

Table 3. VALUE OF SHIPMENTS OF RUGS, CARPET, AND CARPETING: 1964 TO 1980

(Million dollars; not seasonally adjusted)

Year ¹	Rugs, carpet and carpeting	Woven carpet and rugs	Tufted carpet and rugs	Other carpet and rugs
1980.....	4,913.8	197.8	4,617.5	98.6
1979.....	5,099.1	200.4	4,805.3	93.4
1978.....	4,772.6	178.1	4,492.8	101.6
1977.....	4,298.7	155.8	4,050.3	92.6
1976.....	3,636.5	151.8	3,401.3	83.4
1975.....	3,092.2	156.6	2,856.0	79.6
1974.....	3,328.8	182.5	3,043.9	102.3
1973.....	3,360.5	193.5	3,064.4	102.6
1972 ¹	2,936.2	195.4	2,642.1	98.7
1971.....	2,395.5	181.3	2,121.0	93.1
1970.....	2,215.1	202.6	1,914.2	98.3
1969.....	2,186.6	237.4	1,845.7	103.5
1968.....	1,972.3	234.1	1,641.4	96.8
1967.....	1,615.5	228.1	1,299.2	88.2
1966.....	1,497.6	246.7	1,183.4	67.5
1965.....	1,382.4	228.5	1,097.5	56.4
1964.....	1,241.5	235.8	952.2	53.6

Note: Detail may not add to total due to independent rounding.

¹Due to revisions that were made for 1972, data for prior years may not be directly comparable. Revised data for earlier years by type of carpet are not available although revised totals were published in the Seasonal Adjustment Supplement, 1968 to 1973, issued in March 1975.

Table 4. QUANTITY AND VALUE OF SHIPMENTS OF RUGS, CARPET, AND CARPETING: 1980

(Quantity in 1,000 square yards; product shipments in thousands of dollars)

Product code	Product	Total		First quarter		Second quarter	
		Quantity	Product shipments	Quantity	Product shipments	Quantity	Product shipments
	Total.....	1,058,404	4,913,844	287,880	1,307,283	254,327	1,167,474
22710 00	Woven carpet and rugs.....	19,785	197,772	5,393	51,876	5,589	53,832
22720 01	Tufted carpet and rugs.....	1,012,794	4,617,518	275,804	1,231,811	241,375	1,086,555
22720 03	Scatter rugs, bathmats, and sets (rugs 6'x9' and smaller).	73,711	273,323	18,774	69,954	18,503	68,625
22720 09	Roll goods and rugs larger than 6'x9', excluding artificial grass.....	837,809	4,013,669	226,825	1,063,445	192,752	918,244
22720 25	Tufted artificial grass for nonathletic surface.....	33,050	78,437	9,529	22,279	11,126	26,510
22790 10	Automobile and aircraft carpeting.....	68,224	252,089	20,676	76,133	18,994	73,176
22790 74	Other carpet and rugs.....	25,825	98,554	6,683	23,596	7,363	27,087
22790 79	Knitted.....	7,386	41,595	1,615	9,084	2,038	11,422
	Needle punched.....	12,681	29,052	3,487	7,794	3,961	8,695
	Braided, hooked, and other carpet and rugs n.e.c.....	5,758	27,907	1,581	6,718	1,364	6,970
		Third quarter		Fourth quarter			
		Quantity	Product shipments	Quantity	Product shipments	Quantity	Product shipments
22710 00	Total.....			246,290	1,152,448	269,907	1,286,639
22720 01	Woven carpet and rugs.....	4,406	45,074	4,397	46,990		
22720 03	Tufted carpet and rugs.....	235,835	1,083,636	259,780	1,215,516		
22720 09	Scatter rugs, bathmats, and sets (rugs 6'x9' and smaller).	17,176	62,662	19,258	72,082		
22720 25	Roll goods and rugs larger than 6'x9', excluding artificial grass.....	198,329	955,504	219,903	1,076,476		
22790 10	Tufted artificial grass for nonathletic surface.....	6,057	14,841	6,338	14,807		
22790 74	Automobile and aircraft carpeting.....	14,273	50,629	14,281	52,151		
22790 79	Other carpet and rugs.....	6,049	23,738	5,730	24,133		
	Knitted.....	1,831	10,259	1,902	10,830		
	Needle punched.....	2,882	6,615	2,351	5,948		
	Braided, hooked, and other carpet and rugs n.e.c.....	1,336	6,864	1,477	7,355		

N.e.c. Not elsewhere classified.

Table 5. BACKING CONSUMED IN THE MANUFACTURE OF RUGS, CARPET, AND CARPETING BY TYPE OF CARPETING: 1980

Product code	Type of yarn or fabric	Unit of measure	Total	Woven	Bathmats and throw rugs (6'x9' and smaller)	Tufted roll goods and rugs (larger than 6'x9')	Auto and aero	Other carpet and rugs (except woven and tufted)
TOTAL 1980								
02201 03	Primary backing.....	M sq. yds..	(X)	15,499	60,202	824,391	41,804	14,999
02299 22	Cotton.....	do.....	(X)	1,506	(D)	(D)	(D)	(D)
02201 05	Jute.....	do.....	(X)	14,701	(D)	(D)	30,397	(D)
02201 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	do.....	(X)	19,292	54,538	803,903	(D)	14,426
	Other backing.....	do.....						
02299 24	Secondary backing.....	M sq. yds..	828,885	1,110	29,782	784,798	10,091	3,104
02281 00	Jute.....	do.....	429,764	(D)	(D)	419,637	(D)	-
02201 05	Manmade, woven and nonwoven.....	do.....	183,874	-	(D)	183,256	-	-
03069 37	Cushion backing.....	do.....	165,871	(D)	23,990	137,788	(D)	2,290
03079 27	Foam or high sponge rubber.....	do.....	122,498	(D)	(D)	104,745	(D)	1,968
02200 23	Other (vinyl, polyurethane, etc.).....	do.....	43,373	-	(D)	33,043	(D)	322
	Other (scrim, solid vinyl, etc.).....	do.....	49,376	-	(D)	44,117	-	814
FIRST QUARTER								
02201 03	Primary backing.....	M sq. yds..	(X)	14,285	16,922	225,524	13,749	3,365
02299 22	Cotton.....	do.....	(X)	1,449	(D)	(D)	(D)	(D)
02201 05	Jute.....	do.....	(X)	1,339	(D)	(D)	10,185	(D)
02201 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	do.....	(X)	12,497	15,468	217,418	(D)	3,165
	Other backing.....	do.....						
02299 24	Secondary backing.....	M sq. yds..	213,153	(D)	8,957	200,378	2,876	665
02281 00	Jute.....	do.....	105,362	-	(D)	102,369	(D)	-
02201 05	Manmade, woven and nonwoven.....	do.....	52,736	-	-	52,736	-	-
03069 37	Cushion backing.....	do.....	41,513	(D)	7,266	33,068	(D)	(D)
03079 27	Foam or high sponge rubber.....	do.....	33,031	(D)	(D)	26,992	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	do.....	8,482	-	(D)	6,076	(D)	(D)
	Other (scrim, solid vinyl, etc.).....	do.....	13,542	-	(D)	12,205	-	(D)
SECOND QUARTER								
02201 03	Primary backing.....	M sq. yds..	(X)	14,233	13,599	184,830	11,106	3,695
02299 22	Cotton.....	do.....	(X)	1,435	(D)	(D)	(D)	(D)
02201 05	Jute.....	do.....	(X)	1,376	(D)	(D)	7,549	(D)
02201 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	do.....	(X)	12,422	12,159	180,203	(D)	3,538
	Other backing.....	do.....						
02299 24	Secondary backing.....	M sq. yds..	188,155	(D)	6,128	178,542	2,340	868
02281 00	Jute.....	do.....	93,226	(D)	(D)	91,021	(D)	-
02201 05	Manmade, woven and nonwoven.....	do.....	42,514	-	210	42,304	-	-
03069 37	Cushion backing.....	do.....	41,387	(D)	(D)	35,722	(D)	(D)
03079 27	Foam or high sponge rubber.....	do.....	31,160	(D)	(D)	27,890	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	do.....	10,227	-	(D)	7,832	(D)	(D)
	Other (scrim, solid vinyl, etc.).....	do.....	11,028	-	(D)	9,495	-	(D)
THIRD QUARTER								
02201 03	Primary backing.....	M sq. yds..	(X)	13,555	14,060	203,493	8,114	4,227
02299 22	Cotton.....	do.....	(X)	1,279	(D)	(D)	(D)	(D)
02201 05	Jute.....	do.....	(X)	1,058	(D)	(D)	6,064	(D)
02201 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	do.....	(X)	12,218	12,451	199,187	(D)	4,142
	Other backing.....	do.....						
02299 24	Secondary backing.....	M sq. yds..	205,781	273	6,713	196,029	2,128	638
02281 00	Jute.....	do.....	112,903	(D)	(D)	110,722	(D)	-
02201 05	Manmade, woven and nonwoven.....	do.....	43,344	(D)	(D)	43,140	-	-
03069 37	Cushion backing.....	do.....	38,780	(D)	5,407	32,564	(D)	(D)
03079 27	Foam or high sponge rubber.....	do.....	27,360	(D)	(D)	23,741	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	do.....	11,420	-	(D)	8,823	(D)	(D)
	Other (scrim, solid vinyl, etc.).....	do.....	10,754	-	(D)	9,603	-	(D)
FOURTH QUARTER								
02201 03	Primary backing.....	M sq. yds..	(X)	13,426	15,621	210,544	8,835	3,712
02299 22	Cotton.....	do.....	(X)	1,343	1,161	(D)	(D)	(D)
02201 05	Jute.....	do.....	(X)	1,928	-	(D)	6,599	(D)
02201 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	do.....	(X)	12,155	14,460	207,095	(D)	3,581
	Other backing.....	do.....						
02299 24	Secondary backing.....	M sq. yds..	221,796	283	7,984	209,849	2,747	933
02281 00	Jute.....	do.....	118,273	(D)	(D)	115,525	(D)	-
02201 05	Manmade, woven and nonwoven.....	do.....	45,280	(D)	(D)	45,076	-	-
03069 37	Cushion backing.....	do.....	44,191	(D)	6,606	36,434	(D)	(D)
03079 27	Foam or high sponge rubber.....	do.....	30,947	(D)	3,815	26,122	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	do.....	13,244	-	2,791	10,312	(D)	(D)
	Other (scrim, solid vinyl, etc.).....	do.....	14,052	-	1,068	12,814	-	170

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

(X) Not applicable.

¹Figures are in thousands of pounds.

Table 6. CARPET AND RUGS--SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION: 1980

(Quantity in 1,000 square yards; value and calculated import duty in millions of dollars)

Product class code	Item	Manufacturers' shipments		Exports of domestic merchandise ¹		Estimated producers' value ²	Percent, exports to manufacturers' shipments		Imports for consumption ³		Apparent consumption ⁴		Percent, imports to apparent consumption	
		Quantity	Value	Quantity	Value at port		Quantity	Value	Quantity	Value ⁴	Quantity	Value	Quantity	Value
22710	Rugs, carpet, and carpeting.....	1,058,404	4,913.8	75,157	320.5	278.3	7.1	6.5	10,242	126.9	993,489	4,720.2	1.0	2.7
22720	Woven carpet and rugs.....	19,785	197.8	8,536	47.1	40.9	43.1	23.8	4,076	78.6	15,325	229.3	26.6	34.3
22790	Tufted carpet and rugs.....	1,012,794	4,617.5	61,028	245.4	213.1	6.0	5.3	1,735	17.1	947,770	4,389.2	0.2	0.4
	Other carpet and rugs.....	25,825	98.6	5,593	28.0	24.3	21.7	28.4	4,431	31.2	24,663	101.8	18.0	30.7

¹Source: Bureau of the Census Report EM-546, U.S. Exports of Domestic Merchandise.²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8684 for industry group 227) are based on data for 1977 which are published in MC77-SR-12, Origin of Exports of Manufactured Products, appendix B.³Source: Bureau of the Census Report IM145-X, U.S. Imports for Consumption.⁴This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁵Apparent consumption is derived by subtracting exports from the total manufacturers' shipments plus imports.

Table 7. COMPARISON OF SIC CODES, TSUSA IMPORT NUMBERS, AND SCHEDULE B EXPORT NUMBERS

SIC product class code	Product description	TSUSA - Import number	Export Schedule B number
22710	Woven carpet and rugs.....	360.4000, 360.4615, 360.4625, 360.4630, 360.4635, 360.4640, 360.4645, 360.4815, 360.4830, 360.4850, 360.4825, 360.4835, 360.4855	360.8520, 360.8540, 360.8560
22720	Tufted carpet and rugs.....	360.7000, 360.8100, 360.8200, 360.8300, 360.8400	360.8020, 360.8040, 360.8060, 360.8080
22790	Other carpet and rugs.....	360.3000, 360.3500, 360.3600, 361.0510, 361.0520, 361.0530, 360.0540, 361.0700, 361.1000, 361.1820, 361.1840, 361.2015, 361.2025, 361.2035, 361.2045, 361.4200, 361.4400, 361.4600, 361.4800, 361.5610, 361.5620, 361.5630, 361.5650, 361.5660, 360.2000, 360.2500, 360.4000	360.9520, 360.9540, 360.9560

Source: Bureau of the Census, IM145-X, U.S. Imports for Consumption and General Imports and EM-546, U.S. Exports of Domestic Merchandise.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers U.S. firms producing carpets and rugs. Companies that only dye and finish carpet are excluded from this survey.

Survey Methodology—The data shown in this publication were collected by mail on Bureau of the Census quarterly Form MQ-22Q and annual Form MQ-22Q(s), Carpet and Rugs, from approximately 205 firms reporting quarterly and 70 small establishments reporting data annually. The universe for this sample was the 1977 Census of Manufactures.

Companies for which 1977 Census of Manufactures data were derived from administrative records of other government agencies (generally those with less than five employees) are excluded from this survey since many of these small companies may only dye and finish carpets. In the 1977 Census of Manufactures these companies accounted for approximately 2 percent of the total value of shipments for the industries covered by this survey.

The quarterly mail panel was selected by arraying the census panel in descending order by size for each product line and then choosing a sufficient number of panel members (beginning with the largest) to yield a coverage of approximately 90 percent for each product line.

This report provides revised quarterly figures on the shipments of carpet and rugs, and primary and secondary backing used in the manufacturing of carpet and rugs for 1980. These revisions are based upon annual reports received for companies that do not provide quarterly information and a reconciliation between the MQ-22Q survey and the annual survey of manufactures.

Survey Error—Figures for the annual include estimates for companies or other reporting units in the mail panel whose reports were not received in time for tabulation. Missing figures for firms in the mail panel are estimated from quarter-to-quarter movements shown by reporting firms. The overall estimation rate is generally limited to 10 percent. Individual items with higher estimation rates are footnoted.

The estimation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual quarterly movements for nonrespondents may or may not closely agree with the estimated movements. The probable range of difference between the actual and estimated figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of estimation increases. Figures with estimation rates above 25 percent should be used with caution.

In addition to the errors discussed above, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, etc. It is believed that most important errors of this type were detected and corrected in the course of the Bureau of the Census review of the data for reasonableness and consistency.

Revision to Previous Period Data—Statistics for previous quarters may be revised, due to receipts of corrected data from

respondents, including late reports for which estimates were previously made as described above, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Dollar Adjustment—All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity of Shipments—Represents rugs, carpet, and carpeting shipped during the period, including transfers to other divisions of the company, such as sales offices. Excludes products fabricated from carpeting or roll goods not produced in the reporting establishment.

For automobile and aircraft carpeting, value includes fabrication costs if fabrication is done in the producing plant.

Materials Consumed—These data include primary and secondary backing consumed in the manufacture of rugs, carpet, and carpeting. Materials consumed by commission plants are included in the report of the company for which the work is done.

It should be noted that these data represent all materials consumed during the period, whereas the data shown for rugs, carpet, and carpeting in table 3 represent only products physically shipped during the period.

Value of Shipments—Represents the net selling value f.o.b. plant, after discounts and allowances excluding freight charges. For interplant transfers, represents estimated commercial value, not cost of production.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501 effective March 1979 and for shipments valued under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt

commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

HISTORICAL NOTES

This publication is the twelfth annual summary of the MQ-22Q series relating to manufacturers' shipments and inter-plant transfers of rugs, carpet, and carpeting. The collection of data on a quarterly basis of this series began with the first quarter of 1968. Forerunners to the quarterly survey were Current Industrial Reports Series MA-22Q, *Rugs, Carpet, and Carpeting* (annual) and M22L, *Tufted Textile Products* (semi-annual). The annual, MA-22Q, series ran for 6 years, 1962 to 1967; and the semiannual, M22L, was initiated in 1951 and published for 17 consecutive years. Both of these surveys were discontinued at the end of 1967 when the quarterly survey was established. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959), available at your local Federal Depository Library.

RELATED REPORTS

The related data for class of product totals reported in CIR reports, Census, and/or the ASM generally show some differences. These figures are based on the Standard Industrial Classification System. The 2,000 plus class of product totals for the manufacturing sector include some 10,000 seven-digit product codes. Into these codes manufacturers are asked to classify the several million types of products accounted for in all manufacturing categories. If all or most companies used the SIC system in classifying their own output, the related totals from the various Census reports could be expected to agree more frequently. However, since company records are not typically based on the SIC system, it is to be expected that plant output classified according to the SIC system by two or more different offices of a company can and will, in many instances, produce different results. This is a basic reason for differences.

More specifically, the Census of Manufactures and the Annual Survey of Manufactures ask that an establishment report all of its shipments, and thus, any new product class should be reported in addition to class of products reported in the previous year. Furthermore, new manufacturers are represented in the survey through a regular annual supplementation of the probability sample. Both of these characteristics should tend to make the Census/ASM figures higher than the corresponding CIR data.

In the case of the CIR's, the more detailed product listings, and for those surveys covered on quarterly or monthly basis, the more frequent reporting will develop greater accuracy in the

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information supplied. For the Census and ASM, on the other hand, the more general nature of the product class description may lead in some instances to reporting in an incorrect class of product group. Periodically, a plant by plant comparison of the two survey lists has lead to corrections.

Finally, the ASM is a probability survey with a related sampling variation, and a few CIR's are sampling surveys with their own sampling variation. Some part of the differences may be due to this factor and to the results of less scientific estimates for missing plants in other CIR publications.

For both the ASM and for the CIR, the trend from period to period is considered more significant than the level of reporting.

The Bureau of the Census also publishes reports on other related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	<i>Manufacturer's Shipments, Inventories, and Orders</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>

M3-1 Monthly *Manufacturer's Shipments, Inventories, and Orders*

FT-410 Monthly *U.S. Exports—Schedule E—Commodity by Country*

FT-135 Monthly *U.S. General Imports—Schedule A—Commodity by Country*

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U.S. Department of Commerce
BUREAU OF THE CENSUS

Carpet and Rugs

SUMMARY FOR 1981

MQ-22Q(81)-5

Issued July 1982

SUMMARY OF FINDINGS

Total value of shipments of carpet and rugs increased 6.9 percent in 1981 to \$5,250.4 million from \$4,913.8 million in 1980. Quantity of shipments, however, decreased 6.4 per-

cent, from 1,058.4 million in 1980 to 990.6 million in 1981. The average unit price for total carpeting increased from \$4.64 to \$5.30.

A description of the survey methodology and related information appears on page 7.

Table 1. SHIPMENTS OF CARPET AND RUGS: 1965 TO 1981

(Million dollars; not seasonally adjusted)

Year ¹	Rugs, carpet and carpeting	Woven carpet and rugs	Tufted carpet and rugs	Other carpet and rugs
1981.....	5,250.4	178.6	4,956.5	115.4
1980.....	4,913.8	197.8	4,617.5	98.6
1979.....	5,099.1	200.4	4,805.3	93.4
1978.....	4,772.6	178.1	4,492.8	101.6
1977.....	4,298.7	155.8	4,050.3	92.6
1976.....	3,636.5	151.8	3,401.3	83.4
1975.....	3,092.2	156.6	2,856.0	79.6
1974.....	3,328.8	182.5	3,043.9	102.3
1973.....	3,360.5	193.5	3,064.4	102.6
1972 ¹	2,936.2	195.4	2,642.1	98.7
1971.....	2,395.5	181.3	2,121.0	93.1
1970.....	2,215.1	202.6	1,914.2	98.3
1969.....	2,186.6	237.4	1,845.7	103.5
1968.....	1,972.3	234.1	1,641.4	96.8
1967.....	1,615.5	228.1	1,299.2	88.2
1966.....	1,497.6	246.7	1,183.4	67.5
1965.....	1,382.4	228.5	1,097.5	56.4

Note: Detail may not add to total due to independent rounding.

¹Due to revisions that were made for 1972, data for prior years may not be directly comparable. Revised data for earlier years by type of carpet are not available although revised totals were published in the seasonal adjustment supplement, 1968 to 1973, issued in March 1975. Adjustment of this series for seasonal variation was discontinued after the second quarter 1981. The data in this table are not seasonally adjusted.

Table 2. TOTAL SHIPMENTS OF CARPET AND RUGS, BY QUARTER: 1981 AND 1980

(Quantity in 1,000 square yards; value in \$1,000)

Year and quarter	Quantity	Value
1981		
Total.....	990,619	5,250,391
Fourth quarter.....	217,611	1,192,032
Third quarter.....	252,530	1,379,518
Second quarter.....	278,675	1,461,655
First quarter.....	241,803	217,186
1980		
Total.....	1,058,404	4,913,844
Fourth quarter.....	269,907	1,286,639
Third quarter.....	246,290	1,152,448
Second quarter.....	254,327	1,167,474
First quarter.....	287,880	1,307,283

Table 3A. SHIPMENTS OF CARPET AND RUGS: 1981

(Quantity in 1,000 square yards; value in \$1,000)

Product code	Product	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
22710 00	Total.....	990,619	5,250,391	241,803	1,217,186	278,675	1,461,655
22710 00	Woven carpet and rugs.....	14,507	178,559	3,722	42,616	3,697	46,374
22720 01	Tufted carpet and rugs.....	947,221	4,956,474	231,153	1,148,133	266,930	1,384,452
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	72,300	298,053	17,194	75,359	18,003	73,500
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	808,477	4,398,367	196,440	1,009,865	228,477	1,231,461
22720 25	Tufted artificial grass for nonathletic surface.....	22,596	59,132	7,718	18,819	7,949	22,213
22790 10	Automobile and aircraft carpeting.....	43,848	200,922	9,801	44,090	12,501	57,278
22790 10	Other carpet and rugs.....	28,891	115,358	6,928	26,437	8,048	30,829
22790 74	Knitted.....	6,388	44,295	1,491	10,098	1,545	10,884
22790 79	Needle punched.....	17,601	45,145	4,164	9,810	5,294	13,690
22790 79	Braided, hooked, and other carpet and rugs n.e.c.....	4,902	25,918	12,731	6,529	1,209	6,255
Tbird quarter							
Product code	Product	Quantity		Value		Quantity	
		252,530		1,379,518		217,611	1,192,032
22710 00	Total.....	3,645		46,883		3,443	42,686
22720 01	Woven carpet and rugs.....	240,986		1,301,848		208,152	1,122,041
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	18,434		74,419		18,669	74,775
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	207,557		1,167,630		176,003	989,411
22720 25	Tufted artificial grass for nonathletic surface.....	4,243		11,084		2,686	7,016
22790 10	Automobile and aircraft carpeting.....	10,752		48,715		10,794	50,839
22790 10	Other carpet and rugs.....	7,899		30,787		6,016	27,305
22790 74	Knitted.....	1,569		11,029		1,783	12,284
22790 79	Needle punched.....	5,098		13,379		3,045	8,266
22790 79	Braided, hooked, and other carpet and rugs n.e.c.....	1,232		6,379		1,188	6,755

N.e.c. Not elsewhere classified.

Table 3B. SHIPMENTS OF CARPET AND RUGS: 1980

(Quantity in 1,000 square yards; value in \$1,000)

Product code	Product	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
	Total.....	1,058,404	4,913,844	287,880	1,307,283	254,327	1,167,474
22710 00	Woven carpet and rugs.....	19,785	197,772	5,393	51,876	5,589	53,832
22720 01	Tufted carpet and rugs.....	1,012,794	4,617,518	275,804	1,231,811	241,375	1,086,555
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	73,711	273,323	18,774	69,954	18,503	68,625
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	837,809	4,013,669	226,825	1,063,445	192,752	918,244
22720 25	Tufted artificial grass for nonathletic surface.....	33,050	78,437	9,529	22,279	11,126	26,510
	Automobile and aircraft carpeting.....	68,224	252,089	20,676	76,133	18,994	73,176
22790 10	Other carpet and rugs.....	25,825	98,554	6,683	23,596	7,363	27,087
22790 74	Knitted.....	7,386	41,595	1,615	9,084	2,038	11,622
22790 79	Needle punched.....	12,681	29,052	3,487	7,794	3,961	8,695
	Braided, hooked, and other carpet and rugs n.e.c.....	5,758	27,907	1,581	6,718	1,364	6,970
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
	Total.....	246,290	1,152,448	269,907	1,286,639		
22710 00	Woven carpet and rugs.....	4,406	45,074	4,397	46,990		
22720 01	Tufted carpet and rugs.....	235,835	1,083,636	259,780	1,215,516		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	17,176	62,662	19,258	72,082		
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	198,329	955,504	219,903	1,076,476		
22720 25	Tufted artificial grass for nonathletic surface.....	6,057	14,841	6,338	14,807		
	Automobile and aircraft carpeting.....	14,273	50,629	14,281	52,151		
22790 10	Other carpet and rugs.....	6,049	23,738	5,730	24,133		
22790 74	Knitted.....	1,831	10,259	1,902	10,830		
22790 79	Needle punched.....	2,882	6,615	2,351	5,948		
	Braided, hooked, and other carpet and ruga n.e.c.....	1,336	6,864	1,477	7,355		

N.e.c. Not elsewhere classified.

Table 4A. BACKING CONSUMED IN THE MANUFACTURE OF CARPET AND RUGS, BY TYPE OF CARPETING: 1981

(Quantity in 1,000 square yards)

Product code	Type of yarn or fabric	Total	Woven	Bathmats and throw rugs (6'x9' and smaller)	Tufted roll goods and rugs (larger than 6'x9')	Auto and aero	Other carpet and rugs (except woven and tufted)
TOTAL 1981							
02201 03	Primary backing.....	(X)	115,316	55,223	786,246	42,305	10,993
02299 22	Cotton.....	(X)	(D)	3,106	(D)	-	(D)
02201 05	Jute.....	(X)	14,294	-	21,735	20,611	(D)
02200 14	Manmade (rayon and/or acetate, nylon, poly-ester, polypropylene, etc.).....	(X)	18,638	52,117	758,927	21,694	3,236
02299 24	Other backing.....	(X)	(D)	-	(D)	-	7,248
02281 00	Secondary backing.....	825,820	(D)	28,810	783,435	(D)	2,862
02299 24	Jute.....	464,362	(D)	(D)	463,669	-	-
02281 00	Manmade, woven and nonwoven.....	181,166	(D)	(D)	171,045	(D)	-
03069 37	Cushion backing.....	131,827	(D)	23,675	104,575	(D)	2,862
03079 27	Foam or high sponge rubber.....	96,411	(D)	17,556	75,278	(D)	2,862
02200 23	Other (vinyl, polyurethane, etc.).....	35,416	-	6,119	29,297	-	-
02200 23	Other (scrim, solid vinyl, etc.).....	48,465	-	4,319	44,146	-	-
FIRST QUARTER							
02201 03	Primary backing.....	(X)	14,036	13,297	205,378	8,317	2,343
02299 22	Cotton.....	(X)	(D)	746	(D)	-	(D)
02201 05	Juts.....	(X)	11,047	-	2,883	3,899	(D)
02200 14	Manmade (rayon and/or acetate, nylon, poly-ester, polypropylene, etc.).....	(X)	12,396	12,551	201,276	4,418	833
02299 24	Other backing.....	(X)	(D)	-	(D)	-	1,356
02281 00	Secondary backing.....	212,541	(D)	7,899	201,752	(D)	556
02299 24	Jute.....	112,688	(D)	(D)	112,489	-	-
02281 00	Manmade, woven and nonwoven.....	46,776	(D)	(D)	44,514	(D)	-
03069 37	Cushion backing.....	38,316	(D)	6,071	31,612	(D)	556
03079 27	Foam or high sponge rubber.....	30,366	(D)	4,964	24,769	(D)	556
02200 23	Other (vinyl, polyurethane, etc.).....	7,950	-	1,107	6,843	-	-
02200 23	Other (scrim, solid vinyl, etc.).....	14,761	-	1,624	13,137	-	-
SECOND QUARTER							
02201 03	Primary backing.....	(X)	13,911	13,540	225,879	11,617	3,509
02299 22	Cotton.....	(X)	(D)	859	(D)	-	(D)
02201 05	Jute.....	(X)	11,049	-	2,247	6,306	(D)
02200 14	Manmade (rayon and/or acetate, nylon, poly-ester, polypropylene, etc.).....	(X)	12,191	12,681	221,339	5,311	1,048
02299 24	Other backing.....	(X)	(D)	-	(D)	-	2,336
02281 00	Secondary backing.....	235,256	(D)	6,598	224,635	(D)	799
02299 24	Jute.....	132,474	(D)	(D)	132,312	-	-
02281 00	Manmade, woven and nonwoven.....	51,828	(D)	(D)	48,776	(D)	-
03069 37	Cushion backing.....	38,792	(D)	5,377	32,402	(D)	799
03079 27	Foam or high sponge rubber.....	28,832	(D)	3,413	24,406	(D)	799
02200 23	Other (vinyl, polyurethane, etc.).....	9,960	-	1,964	7,996	-	-
02200 23	Other (scrim, solid vinyl, etc.).....	12,162	-	1,017	11,145	-	-
THIRD QUARTER							
02201 03	Primary backing.....	(X)	13,729	14,238	194,675	11,122	3,279
02299 22	Cotton.....	(X)	(D)	778	(D)	-	(D)
02201 05	Jute.....	(X)	11,074	-	9,110	5,851	(D)
02200 14	Manmade (rayon and/or acetate, nylon, poly-ester, polypropylene, etc.).....	(X)	12,046	13,460	184,365	5,271	761
02299 24	Other backing.....	(X)	(D)	-	(D)	-	2,393
02281 00	Secondary backing.....	211,176	(D)	8,696	199,019	(D)	900
02299 24	Jute.....	123,495	(D)	(D)	123,259	-	-
02281 00	Manmade, woven and nonwoven.....	44,169	(D)	(D)	41,873	(D)	-
03069 37	Cushion backing.....	32,215	(D)	7,753	23,329	(D)	900
03079 27	Foam or high sponge rubber.....	22,531	(D)	6,173	15,225	(D)	900
02200 23	Other (vinyl, polyurethane, etc.).....	9,684	-	1,580	8,104	-	-
02200 23	Other (scrim, solid vinyl, etc.).....	11,297	-	739	10,558	-	-
FOURTH QUARTER							
02201 03	Primary backing.....	(X)	13,640	14,148	160,314	11,249	1,862
02299 22	Cotton.....	(X)	(D)	723	(D)	-	(D)
02201 05	Juts.....	(X)	11,124	-	7,495	4,555	(D)
02200 14	Manmade (rayon and/or acetate, nylon, poly-ester, polypropylene, etc.).....	(X)	12,005	13,425	151,947	6,694	594
02299 24	Other backing.....	(X)	(D)	-	(D)	-	1,163
02281 00	Secondary backing.....	166,847	(D)	5,617	158,029	(D)	607
02299 24	Jute.....	95,705	(D)	(D)	95,609	-	-
02281 00	Manmade, woven and nonwoven.....	38,393	(D)	(D)	35,882	(D)	-
03069 37	Cushion backing.....	22,504	(D)	4,474	17,232	(D)	607
03079 27	Foam or high sponge rubber.....	14,682	(D)	3,006	10,878	(D)	607
02200 23	Other (vinyl, polyurethane, etc.).....	7,822	-	1,468	6,354	-	-
02200 23	Other (scrim, solid vinyl, etc.).....	10,245	-	939	9,306	-	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

(X) Not applicable.

1Quantities are in 1,000 pounds.

Table 4B. BACKING CONSUMED IN THE MANUFACTURE OF CARPET AND RUGS, BY TYPE OF CARPETING: 1980

(Quantity in 1,000 square yards)

Product code	Type of yarn or fabric	Total	Woven	Bathmats and throw rugs (6'x9' and smaller)	Tufted roll goods and rugs (larger than 6'x9')	Auto and aero	Other carpet and rugs (except woven and tufted)
TOTAL 1980							
02201 03	Primary backing.....	(X)	115,499	60,202	824,391	41,804	14,999
02299 22	Cotton.....	(X)	11,506	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	14,701	(D)	(D)	30,397	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	19,292	54,538	803,903	(D)	14,426
02299 24	Other backing.....	828,885	1,110	29,782	784,798	10,091	3,104
02281 00	Secondary backing.....	429,764	(D)	(D)	419,637	(D)	-
03069 37	Jute.....	183,874	-	(D)	183,256	-	-
03079 27	Manmade, woven and nonwoven.....	165,871	(D)	23,990	137,788	(D)	2,290
02200 23	Cushion backing.....	122,498	(D)	(D)	104,745	(D)	1,968
02200 14	Foam or high sponge rubber.....	43,373	-	(D)	33,043	(D)	322
02200 23	Other (vinyl, polyurethane, etc.).....	49,376	-	(D)	44,117	-	814
FIRST QUARTER							
02201 03	Primary backing.....	(X)	14,285	16,922	225,524	13,749	3,365
02299 22	Cotton.....	(X)	1449	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	11,339	(D)	(D)	10,185	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	12,497	15,468	217,418	(D)	3,165
02299 24	Other backing.....	213,153	(D)	8,957	200,378	2,876	665
02281 00	Secondary backing.....	105,362	-	(D)	102,369	(D)	-
03069 37	Jute.....	52,736	-	-	52,736	-	-
03079 27	Manmade, woven and nonwoven.....	41,513	(D)	7,266	33,068	(D)	(D)
02200 23	Cushion backing.....	33,031	(D)	(D)	26,992	(D)	(D)
02200 14	Foam or high sponge rubber.....	8,482	-	(D)	6,076	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	13,542	-	(D)	12,205	-	(D)
SECOND QUARTER							
02201 03	Primary backing.....	(X)	14,233	13,599	184,830	11,106	3,695
02299 22	Cotton.....	(X)	1435	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	11,376	(D)	(D)	7,549	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	12,422	12,159	180,203	(D)	3,538
02299 24	Other backing.....	188,155	(D)	6,128	178,542	2,340	868
02281 00	Secondary backing.....	93,226	(D)	(D)	91,021	(D)	-
03069 37	Jute.....	42,514	-	210	42,304	-	-
03079 27	Manmade, woven and nonwoven.....	41,387	(D)	(D)	35,722	(D)	(D)
32200 23	Cushion backing.....	31,160	(D)	(D)	27,890	(D)	(D)
02200 14	Foam or high sponge rubber.....	10,227	-	(D)	7,832	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	11,028	-	(D)	9,495	-	(D)
THIRD QUARTER							
02201 03	Primary backing.....	(X)	13,555	14,060	203,493	8,114	4,227
02299 22	Cotton.....	(X)	1279	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	11,058	(D)	(D)	6,064	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	12,218	12,451	199,187	(D)	4,142
02299 24	Other backing.....	205,781	273	6,713	196,029	2,128	638
02281 00	Secondary backing.....	112,903	(D)	(D)	110,722	(D)	-
03069 37	Jute.....	43,344	(D)	(D)	43,140	-	-
03079 27	Manmade, woven and nonwoven.....	38,780	(D)	5,407	32,564	(D)	(D)
02200 23	Cushion backing.....	27,360	(D)	(D)	23,741	(D)	(D)
02200 14	Foam or high sponge rubber.....	11,420	-	(D)	8,823	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	10,754	-	(D)	9,603	-	(D)
FOURTH QUARTER							
02201 03	Primary backing.....	(X)	13,426	15,621	210,544	8,835	3,712
02299 22	Cotton.....	(X)	1343	1,161	(D)	(D)	(D)
02201 05	Jute.....	(X)	1928	-	(D)	6,599	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	12,155	14,460	207,095	(D)	3,581
02299 24	Other backing.....	221,796	283	7,984	209,849	2,747	933
02281 00	Secondary backing.....	118,273	(D)	(D)	115,525	(D)	-
03069 37	Jute.....	45,280	(D)	(D)	45,076	-	-
03079 27	Manmade, woven and nonwoven.....	44,191	(D)	6,606	36,434	(D)	(D)
02200 23	Cushion backing.....	30,947	(D)	(D)	26,122	(D)	(D)
02200 14	Foam or high sponge rubber.....	13,244	-	2,791	10,312	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	14,052	-	1,068	12,814	-	170

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

(X) Not applicable.

* Quantities are in thousands of pounds.

Table 5. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF CARPET AND RUGS: 1981 AND 1960

(Quantity in 1,000 square yards; value and calculated import duty in millions of dollars)

Product class code	Item	Manufacturers' shipments		Exports of domestic merchandise ¹		Esti- mated produc- ers' value ²	Percent, exports to manufacturers' shipments		Imports for consumption ³		Apparent consumption ⁴		Percent, imports to apparent consumption		
		Quantity	Value	Quan- tity	Value at port		Quan- tity	Value	Quan- tity	Value ⁴	Quantity	Value	Quan- tity	Value	
22710	1981	Carpet and rugs.....	1,079,286	5,277.2	74,675	335.2	291.1	6.9	6.3	10,066	139.1	1,014,111	5,058.3	0.9	2.7
		Woven carpet and rugs	14,971	187.1	9,192	42.8	37.2	61.4	22.9	3,627	76.3	9,406	223.0	38.5	34.2
		Tufted carpet and rugs.....	1,036,866	4,972.0	57,513	256.1	222.4	5.5	5.1	1,511	23.7	980,864	4,740.5	0.1	0.4
		Other carpet and rugs.....	27,449	118.1	7,970	36.3	31.5	29.0	30.7	4,928	39.1	23,841	121.8	20.7	32.1
22720	1980	Carpet and rugs.....	1,058,404	4,913.8	75,157	320.5	278.3	7.1	6.5	10,242	126.9	993,489	4,720.2	1.0	2.7
		Woven carpet and rugs.....	19,785	197.8	8,536	47.1	40.9	43.1	23.8	4,076	78.6	15,325	229.3	26.6	34.3
		Tufted carpet and rugs.....	1,012,794	4,617.5	61,028	245.4	213.1	6.0	5.3	1,735	17.1	947,770	4,389.2	0.2	0.4
		Other carpet and rugs.....	25,825	98.6	5,593	28.0	24.3	21.7	28.4	4,431	31.2	24,663	101.8	18.0	30.7
22790		Carpet and rugs.....	1,036,866	4,972.0	57,513	256.1	222.4	5.5	5.1	1,511	23.7	980,864	4,740.5	0.1	0.4

¹Source: Bureau of the Census report EM-546, U.S. Exports.²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8684 for industry group 227) are based on data for 1980 which are published in M80(AS)-6, Origin of Exports of Manufactured Products, appendix B.³Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.⁴This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁵Apparent consumption is derived by subtracting exports from the total manufacturers' shipments plus imports.

Table 6. COMPARISON OF SIC CODES, TSUSA IMPORT NUMBERS, AND SCHEDULE B EXPORT NUMBERS

SIC product class code	Product description	TSUSA number	Schedule B number
22710	Woven carpet and rugs.....	360.4000, 360.4615, 306.4625, 306.4630, 360.4635, 360.4640, 360.4645, 360.4815, 360.4830, 360.4850, 360.4825, 360.4835, 360.4855	360.8520, 360.8540, 360.8560
22720	Tufted carpet and rugs.....	360.7000, 360.8100, 360.8200, 360.8300, 360.8400	360.8020, 360.8040, 360.8060, 360.8080
22790	Other carpet and rugs.....	360.3000, 360.3500, 360.3600, 361.0510, 361.0520, 361.0530, 360.0540, 361.0700, 361.1000, 361.1820, 361.1840, 361.2015, 361.2025, 361.2035, 361.2045, 361.4200, 361.4400, 361.4600, 361.4800, 361.5610, 361.5620, 361.5630, 361.5650, 361.5660, 360.2000, 360.2500, 360.4000	360.9520, 360.9540, 360.9560

Source: Bureau of the Census, IM 145-X, U.S. Imports for Consumption and General Imports, and EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers all companies manufacturing carpet and rugs in the United States, except very small companies (generally less than 5 employees), for which 1977 Census of Manufactures data were derived from administrative records of other Government agencies.

Survey Methodology—The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ-22Q, Carpet and Rugs. The survey panel includes all known manufacturers of carpet and rugs (except those very small firms excluded from the scope of the survey). Approximately 225 companies are included.

Participation in the quarterly survey is voluntary. However, annual reports are required from those companies that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data—Survey error may result from several sources: (1) inability to obtain information about all cases in the survey, (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 25 percent for any one data cell. Figures with imputation rates greater than 25 percent are footnoted.

The imputation rate is an explicit indicator of the potential error in published figures due to nonresponse because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 25 percent should be used with caution.

Revisions to Previous Period Data—Data may be revised as the result of corrected figures from respondents, annual reports received for which imputations were originally made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions may include changes to prior period data resulting from reconciliation of the results of this survey with the 1980

Annual Survey of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey.

Adjustment for Price Change—All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments—The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Materials Consumed—These data include primary and secondary backing materials consumed in the manufacture of rugs, carpet, and carpeting. Materials consumed by commission plants are included in the report of the company for which the work is done. It should be noted that these data represent all materials consumed during the period; whereas, shipments data represent products physically shipped during the period.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Estimated Low-Valued Export and Import Transactions—The import statistics include estimated value data for shipments valued under \$251, based on a 1-percent sample. Effective with the statistics for March 1979, the lower limit of the value ranges for estimating data for low-value export shipments has been raised from \$251 to \$501. For countries other than Canada, effective with the March 1979 statistics, data for shipments valued \$501-\$999 (formerly \$251-\$999) are estimated based on a 50-percent sample of such shipments. As in the past, these estimates are combined with data for shipments valued \$1,000 and over, which continue to be fully compiled. For Canada, effective with the March 1979 statistics, shipments valued \$501-\$1,999 (\$251-\$1,999 prior to March 1979) are estimated, based on a 10-percent sample and are combined with fully compiled data for shipments valued \$2,000 and over. For exports to all countries, data for shipments valued under \$501 (under \$251 prior to March 1979) are also estimated, based on established percentages of individual country totals.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when

intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

HISTORICAL NOTES

Data on carpets and rugs have been collected by the Bureau of the Census since 1968. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 526-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, N.C.	(704) 372-0711
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 749-2814
Denver, Colorado	(303) 234-3924
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 824-7317
New York, New York	(212) 264-3860
Philadelphia, Pa.	(215) 597-4920
Seattle, Washington	(206) 442-7800

RELATED REPORTS

A quarterly Current Industrial Report is published in this series. The Bureau of the Census also publishes the following related reports.

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M22A	Monthly	<i>Finished Woven Fabrics (Production, Inventories, and Unfilled Orders)</i>

M22D	Monthly	<i>Consumption on the Woolen Systems and Worsted Combing</i>	FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>
M22P	Monthly	<i>Consumption on the Cotton System</i>			CONTACTS FOR DATA USERS
MQ-22T	Quarterly	<i>Broadwoven Fabrics (Gray)</i>	Subject Area	Contact	Phone Number
MQ-23X	Quarterly	<i>Sheets, Pillowcases, and Towels</i>	Current Industrial Report MQ-22Q	Barbara Tinari	(301) 763-7837
MA-22F.1	Annually	<i>Textured Yarn Production</i>	Manufacturers' Shipments, Inventories, and Orders	Kathleen Menth	(301) 763-2575
MA-22F.2	Annually	<i>Spun Yarn Production</i>			
MA-22G	Annually	<i>Narrow Fabrics</i>	Census/ASM	Charles Lee	(301) 763-5152
MA-22K	Annually	<i>Knit Fabric Production</i>	To order a Census Bureau publication	Customer Services (DUSD)	(301) 763-4100
MA-22S	Annually	<i>Broadwoven Fabrics Finished</i>	Foreign Trade publication	Juanita Noone	(301) 763-5140
MA-22M	Biennially	<i>Stocks of Wool and Related Fiber</i>	Office of Textile	Jim Bennett	(202) 377-4058

Other Industry Reports

M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>
(MC)	Quinquennially	<i>Census of Manufactures</i>

Foreign Trade Reports

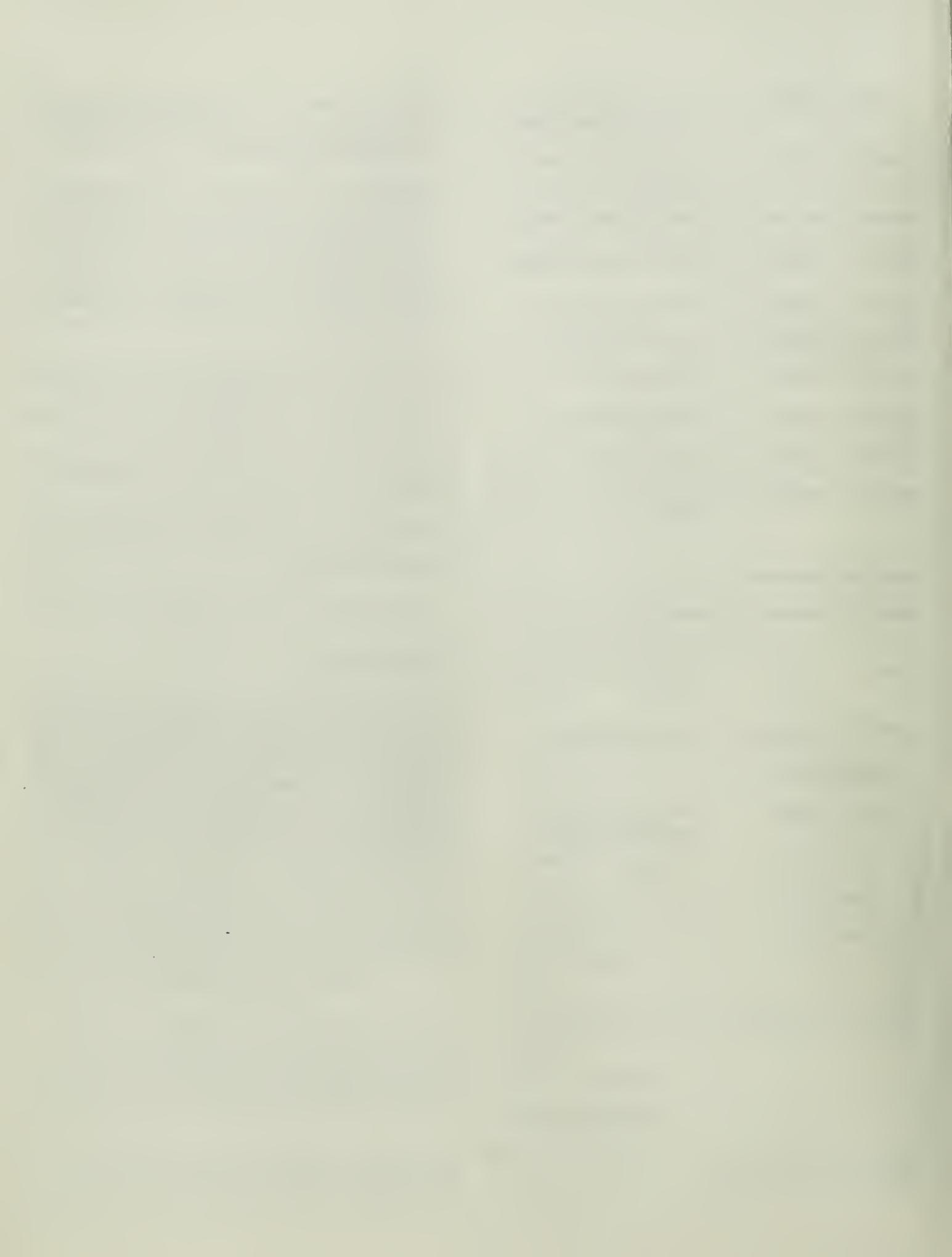
FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
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This report was prepared in the Industry Division, Bureau of the Census, under the direction of Carole A. Ambler, Chief, Current Nondurables Branch, and Judy Dodds, Chief, Textile and Apparel Section. Barbara Tinari was directly responsible for the review of the data and preparation of the report. Roger Bugenhagen, Chief of the Division, and John R. Wikoff, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.



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Both series of current housing reports described above are available from the Superintendent of Documents in a combined subscription for \$9 per year (individual copies vary in price). Use the order form furnished below.

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The Bureau of the Census also issues several series of monthly reports on the construction industry. Subjects covered include housing starts, construction activity, building permits, and housing sales. An announcement and order form covering these reports is available free of charge upon request to: Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

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U.S. Department of Commerce
BUREAU OF THE CENSUS

Carpet and Rugs

SUMMARY FOR 1982

MQ22Q(82)-5

Issued October 1983

SUMMARY OF FINDINGS

Total value of shipments of carpet and rugs decreased 4.2 percent in 1982 to \$5,030.5 million from \$5,250.4 million in 1981. Quantity of shipments, decreased 8.5 percent, from

990.6 million sq. yds. in 1981 to 906.5 million in 1982. The average unit price for total carpeting increased slightly from \$5.30 to \$5.55.

A description of the survey methodology and related information appears on page 7.

Table 1. SHIPMENTS OF CARPET AND RUGS: 1972 TO 1982

(Million dollars; not seasonally adjusted)

Year	Rugs, carpet and carpeting	Woven carpet and rugs	Tufted carpet and rugs	Other carpet and rugs
1982.....	5,030.5	172.8	4,717.7	140.0
1981.....	5,250.4	178.6	4,956.5	115.4
1980.....	4,913.8	197.8	4,617.5	98.6
1979.....	5,099.1	200.4	4,805.3	93.4
1978.....	4,772.6	178.1	4,492.8	101.6
1977.....	4,298.7	155.8	4,050.3	92.6
1976.....	3,636.5	151.8	3,401.3	83.4
1975.....	3,092.2	156.6	2,856.0	79.6
1974.....	3,328.8	182.5	3,043.9	102.3
1973.....	3,360.5	193.5	3,064.4	102.6
1972.....	2,936.2	195.4	2,642.1	98.7

Note: Detail may not add to total due to independent rounding.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Judy Dodds. (301) 763-7536.

For sale by Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 25 cents per copy, \$1.25 per year.

Table 2. TOTAL SHIPMENTS OF CARPET AND RUGS, BY QUARTER: 1982 AND 1981

(Quantity in 1,000 square yards; value in \$1,000)

Year and quarter	Quantity	Value
1982		
Total.....	906,499	5,030,454
Fourth quarter.....	222,524	1,269,698
Third quarter.....	224,825	1,276,243
Second quarter.....	240,437	1,295,324
First quarter.....	218,713	1,189,189
Total.....	990,619	5,250,391
Fourth quarter.....	217,611	1,192,032
Third quarter.....	252,530	1,379,518
Second quarter.....	278,675	1,461,655
First quarter.....	241,803	1,217,186

Table 3A. SHIPMENTS OF CARPET AND RUGS: 1982

(Quantity in 1,000 square yards; value in \$1,000)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
22710 00	Total.....	906,499	5,030,454	218,713	1,189,189	240,437	1,295,324
22710 00	Woven carpet and rugs.....	12,249	172,794	3,211	42,911	3,345	43,179
22720 01	Tufted carpet and rugs.....	853,675	4,717,669	204,835	1,109,290	224,881	1,215,469
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	60,065	296,848	14,720	73,101	15,304	71,952
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	740,427	4,184,299	176,737	980,006	193,872	1,076,490
22720 25	Tufted artificial grass for nonathletic surface.....	21,432	56,493	5,925	14,745	6,673	17,533
	Automobile and aircraft carpeting.....	31,751	180,029	7,453	41,438	9,032	49,494
22790 10	Other carpet and rugs.....	40,575	139,991	10,667	36,988	12,211	36,676
22790 74	Knitted.....	5,565	46,528	1,170	11,901	1,261	9,507
22790 79	Needle punched.....	29,116	67,026	7,827	18,404	9,694	21,216
	Braided, hooked, and other carpet and rugs n.e.c.....	5,894	26,437	1,670	6,683	1,256	5,953
Third quarter							
Product code	Product description	Quantity	Value	Quantity	Value	Quantity	Value
22710 00	Total.....	224,825	1,276,243	222,524	1,269,698		
22710 00	Woven carpet and rugs.....	2,918	41,105	2,775	45,599		
22720 01	Tufted carpet and rugs.....	211,668	1,199,438	212,291	1,193,472		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	14,403	70,969	15,638	80,826		
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	184,266	1,067,067	185,552	1,060,736		
22720 25	Tufted artificial grass for nonathletic surface.....	4,685	12,870	4,149	11,345		
	Automobile and aircraft carpeting.....	8,314	48,532	6,952	40,565		
22790 10	Other carpet and rugs.....	10,239	35,700	7,458	30,627		
22790 74	Knitted.....	1,508	12,273	1,626	12,847		
22790 79	Needle punched.....	7,311	16,778	4,284	10,628		
	Braided, hooked, and other carpet and rugs n.e.c.....	1,420	6,649	1,548	7,152		

N.e.c. Not elsewhere classified.

Table 3B. SHIPMENTS OF CARPET AND RUGS: 1981

(Quantity in 1,000 square yards; value in \$1,000)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
	Total.....	990,619	5,250,391	241,803	1,217,186	278,675	1,461,665
22710 00	Woven carpet and rugs.....	14,507	178,559	3,722	42,616	3,697	46,374
22720 01	Tufted carpet and rugs.....	947,221	4,956,474	231,153	1,148,133	266,930	1,384,452
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	72,300	298,053	17,194	75,359	18,003	73,500
22720 09	Roll goods and ruga larger than 6' x 9', excluding artificial grass.....	808,477	4,398,367	196,440	1,009,865	228,477	1,231,461
22720 25	Tufted artificial grass for nonathletic surface.....	22,596	59,132	7,718	18,819	7,949	22,213
	Automobile and aircraft carpeting.....	43,848	200,922	9,801	44,090	12,501	57,278
22790 10	Other carpet and ruga.....	28,891	115,358	6,928	26,437	8,048	30,829
22790 74	Knitted.....	6,388	44,295	1,491	10,098	1,545	10,884
22790 79	Needle punched.....	17,601	45,145	4,164	9,810	5,294	13,690
	Braided, hooked, and other carpet and ruga n.e.c.....	4,902	25,918	12,731	6,529	1,209	6,255
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
	Total.....	252,530	1,379,518	217,611	1,192,032		
22710 00	Woven carpet and ruga.....	3,645	46,883	3,443	42,686		
22720 01	Tufted carpet and ruga.....	240,986	1,301,848	208,152	1,122,041		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	18,434	74,419	18,669	74,775		
22720 09	Roll goods and ruga larger than 6' x 9', excluding artificial grass.....	207,557	1,167,630	176,003	989,411		
22720 25	Tufted artificial grass for nonathletic surface.....	4,243	11,084	2,686	7,016		
	Automobile and aircraft carpeting.....	10,752	48,715	10,794	50,839		
22790 10	Other carpet and ruga.....	7,899	30,787	6,016	27,305		
22790 74	Knitted.....	1,569	11,029	1,783	12,284		
22790 79	Needle punched.....	5,098	13,379	3,045	8,266		
	Braided, hooked, and other carpet and ruga n.e.c.....	1,232	6,379	1,188	6,755		

N.e.c. Not elsewhere classified.

Table 4A. BACKING CONSUMED IN THE MANUFACTURE OF CARPET AND RUGS, BY TYPE OF CARPETING: 1982

(Quantity in 1,000 square yards)

Product code	Type of yarn or fabric	Total	Woven	Bathmats and throw rugs (6'x9' and smaller)	Tufted roll goods and rugs (larger than 6'x9')	Auto and aero	Other carpet and rugs (except woven and tufted)
TOTAL 1982							
02201 03	Primary backing.....	(X)	12,729	57,145	681,229	28,067	27,978
02299 22	Cotton.....	(X)	(D)	(D)	(D)	-	(D)
02201 05	Jute.....	(X)	2,764	(D)	9,339	12,755	(D)
02201 05	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	18,694	53,735	667,065	15,312	(D)
02200 14	Other backing.....	(X)	(D)	-	(D)	-	5,271
02299 24	Secondary backing.....	737,413	(D)	45,351	669,831	19,859	(D)
02281 00	Jute.....	395,611	(D)	-	384,442	(D)	-
02201 05	Manmade, woven and nonwoven.....	174,930	(D)	12,434	153,168	(D)	(D)
02200 23	Cushion backing.....	125,528	(D)	31,152	92,670	(D)	(D)
03069 37	Foam or high sponge rubber.....	91,882	(D)	20,512	69,998	(D)	(D)
03079 27	Other (vinyl, polyurethane, etc.).....	33,646	-	10,640	22,672	(D)	(D)
02200 23	Other (scrim, solid vinyl, etc.).....	41,344	(D)	1,765	39,551	-	(D)
FIRST QUARTER							
02201 03	Primary backing.....	(X)	13,633	14,711	165,896	6,339	6,731
02299 22	Cotton.....	(X)	(D)	(D)	(D)	-	(D)
02201 05	Jute.....	(X)	1,007	(D)	1,830	2,945	(D)
02201 05	Manmade (rayon and/or acetate, nyloo, polyester, polypropylene, etc.).....	(X)	12,194	14,128	162,894	3,394	(D)
02200 14	Other backing.....	(X)	(D)	-	(D)	-	1,215
02299 24	Secondary backing.....	183,185	(D)	10,553	167,623	4,492	(D)
02281 00	Jute.....	95,210	(D)	-	92,677	(D)	-
02201 05	Manmade, woven and nonwoven.....	42,838	(D)	3,201	37,516	(D)	-
02200 23	Cushion backing.....	36,462	(D)	6,901	29,213	(D)	(D)
03069 37	Foam or high sponge rubber.....	27,953	(D)	4,369	23,319	(D)	(D)
03079 27	Other (vinyl, polyurethane, etc.).....	8,509	-	2,532	5,894	(D)	(D)
02200 23	Other (scrim, solid vinyl, etc.).....	8,675	(D)	451	8,217	-	(D)
SECOND QUARTER							
02201 03	Primary backing.....	(X)	12,858	13,896	173,628	7,715	7,887
02299 22	Cotton.....	(X)	(D)	(D)	(D)	-	(D)
02201 05	Jute.....	(X)	709	(D)	1,714	3,520	(D)
02200 14	Manmade (rayon and/or acetate, nyloo, polyester, polypropylene, etc.).....	(X)	1,836	12,992	170,560	4,195	(D)
02200 14	Other backing.....	(X)	(D)	-	(D)	-	1,880
02299 24	Secondary backing.....	197,187	(D)	10,437	180,380	5,839	(D)
02281 00	Jute.....	105,399	(D)	-	102,339	(D)	-
02201 05	Manmade, woven and nonwoven.....	47,258	(D)	3,024	41,317	(D)	-
02200 23	Cushion backing.....	32,562	(D)	7,018	25,158	(D)	(D)
03069 37	Foam or high sponge rubber.....	23,270	(D)	4,105	18,863	(D)	(D)
03079 27	Other (vinyl, polyurethane, etc.).....	9,292	-	2,913	6,295	(D)	(D)
02200 23	Other (scrim, solid vinyl, etc.).....	11,968	(D)	395	11,566	-	(D)
THIRD QUARTER							
02201 03	Primary backing.....	(X)	13,321	14,475	174,451	7,697	7,694
02299 22	Cotton.....	(X)	(D)	(D)	(D)	-	(D)
02201 05	Jute.....	(X)	1492	(D)	2,628	3,521	(D)
02200 14	Manmade (rayon and/or acetate, oylon, polyester, polypropylene, etc.).....	(X)	12,527	13,441	170,552	4,176	(D)
02200 14	Other backing.....	(X)	(D)	-	(D)	-	1,424
02299 24	Secondary backing.....	179,679	(D)	11,810	161,782	5,349	(D)
02281 00	Jute.....	96,891	(D)	-	93,850	(D)	-
02201 05	Manmade, woven and nonwoven.....	41,249	(D)	3,149	35,654	(D)	-
02200 23	Cushion backing.....	30,372	(D)	8,239	21,540	(D)	(D)
03069 37	Foam or high sponge rubber.....	22,045	(D)	5,730	15,805	(D)	(D)
03079 27	Other (vinyl, polyurethane, etc.).....	8,327	-	2,509	5,735	(D)	(D)
02200 23	Other (scrim, solid vinyl, etc.).....	11,167	(D)	422	10,738	-	(D)
FOURTH QUARTER							
02201 03	Primary backing.....	(X)	12,917	14,063	167,254	6,316	5,666
02299 22	Cotton.....	(X)	(D)	(D)	(D)	-	(D)
02201 05	Jute.....	(X)	1556	(D)	3,167	2,769	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	12,137	13,174	163,059	3,547	(D)
02200 14	Other backing.....	(X)	(D)	-	(D)	-	752
02299 24	Secondary backing.....	177,362	(D)	12,551	160,046	4,179	(D)
02281 00	Jute.....	98,111	(D)	-	95,576	(D)	-
02201 05	Manmade, woven and nonwoven.....	43,585	(D)	3,060	38,681	(D)	-
02200 23	Cushion backing.....	26,132	(D)	8,994	16,759	(D)	(D)
03069 37	Foam or high sponge rubber.....	18,614	(D)	6,308	12,011	(D)	(D)
03079 27	Other (vinyl, polyurethane, etc.).....	7,518	-	2,686	4,748	(D)	(D)
02200 23	Other (scrim, solid vinyl, etc.).....	9,534	(D)	497	9,030	-	(D)

See footnotes at end of table 4B.

Table 4B. BACKING CONSUMED IN THE MANUFACTURE OF CARPET AND RUGS, BY TYPE OF CARPETING: 1981

(Quantity in 1,000 square yards)

Product code	Type of yarn or fabric	Total	Woven	Bathmats and throw rugs (6'x9' and smaller)	Tufted roll goods and rugs (larger than 6'x9')	Auto and aero	Other carpet and rugs (except woven and tufted)
TOTAL 1981							
02201 03	Primary backing.....	(X)	¹ 15,316	55,223	786,246	42,305	10,993
02299 22	Cotton.....	(X)	(D)	3,106	(D)	-	(D)
02201 05	Jute.....	(X)	¹ 4,294	-	21,735	20,611	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	¹ 8,638	52,117	758,927	21,694	3,236
	Other backing.....	(X)	(D)	-	(D)	-	7,248
02299 24	Secondary backing.....	825,820	(D)	28,810	783,435	(D)	2,862
02281 00	Jute.....	464,362	(D)	(D)	463,669	-	-
02201 05	Manmade, woven and nonwoven.....	181,166	(D)	(D)	171,045	(D)	-
03069 37	Cushion backing.....	131,827	(D)	23,675	104,575	(D)	2,862
03079 27	Foam or high sponge rubber.....	96,411	(D)	17,556	75,278	(D)	2,862
02200 23	Other (vinyl, polyurethane, etc.).....	35,416	-	6,119	29,297	-	-
	Other (scrim, solid vinyl, etc.).....	48,465	-	4,319	44,146	-	-
FIRST QUARTER							
02201 03	Primary backing.....	(X)	¹ 4,036	13,297	205,378	8,317	2,343
02299 22	Cotton.....	(X)	(D)	746	(D)	-	(D)
02201 05	Jute.....	(X)	¹ 1,047	-	2,883	3,899	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	¹ 2,396	12,551	201,276	4,418	833
	Other backing.....	(X)	(D)	-	(D)	-	1,356
02299 24	Secondary backing.....	212,541	(D)	7,899	201,752	(D)	556
02281 00	Jute.....	112,688	(D)	(D)	112,489	-	-
02201 05	Manmade, woven and nonwoven.....	46,776	(D)	(D)	44,514	(D)	-
03069 37	Cushion backing.....	38,316	(D)	6,071	31,612	(D)	556
03079 27	Foam or high sponge rubber.....	30,366	(D)	4,964	24,769	(D)	556
02200 23	Other (vinyl, polyurethane, etc.).....	7,950	-	1,107	6,843	-	-
	Other (scrim, solid vinyl, etc.).....	14,761	-	1,624	13,137	-	-
SECOND QUARTER							
02201 03	Primary backing.....	(X)	¹ 3,911	13,540	225,879	11,617	3,509
02299 22	Cotton.....	(X)	(D)	859	(D)	-	(D)
02201 05	Jute.....	(X)	¹ 1,049	-	2,247	6,306	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	¹ 2,191	12,681	221,339	5,311	1,048
	Other backing.....	(X)	(D)	-	(D)	-	2,336
02299 24	Secondary backing.....	235,256	(D)	6,598	224,635	(D)	799
02281 00	Jute.....	132,474	(D)	(D)	132,312	-	-
02201 05	Manmade, woven and nonwoven.....	51,828	(D)	(D)	48,776	(D)	-
03069 37	Cushion backing.....	38,792	(D)	5,377	32,402	(D)	799
03079 27	Foam or high sponge rubber.....	28,832	(D)	3,413	24,406	(D)	799
02200 23	Other (vinyl, polyurethane, etc.).....	9,960	-	1,964	7,996	-	-
	Other (scrim, solid vinyl, etc.).....	12,162	-	1,017	11,145	-	-
THIRD QUARTER							
02201 03	Primary backing.....	(X)	¹ 3,729	14,238	194,675	11,122	3,279
02299 22	Cotton.....	(X)	(D)	778	(D)	-	(D)
02201 05	Jute.....	(X)	¹ 1,074	-	9,110	5,851	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	¹ 2,046	13,460	184,365	5,271	761
	Other backing.....	(X)	(D)	-	(D)	-	2,393
02299 24	Secondary backing.....	211,176	(D)	8,696	199,019	(D)	900
02281 00	Jute.....	123,495	(D)	(D)	123,259	-	-
02201 05	Manmade, woven and nonwoven.....	44,169	(D)	(D)	41,873	(D)	-
03069 37	Cushion backing.....	32,215	(D)	7,753	23,329	(D)	900
03079 27	Foam or high sponge rubber.....	22,531	(D)	6,173	15,225	(D)	900
02200 23	Other (vinyl, polyurethane, etc.).....	9,684	-	1,580	8,104	-	-
	Other (scrim, solid vinyl, etc.).....	11,297	-	739	10,558	-	-
FOURTH QUARTER							
02201 03	Primary backing.....	(X)	¹ 3,640	14,148	160,314	11,249	1,862
02299 22	Cotton.....	(X)	(D)	723	(D)	-	(D)
02201 05	Jute.....	(X)	¹ 1,124	-	7,495	4,555	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	¹ 2,005	13,425	151,947	6,694	594
	Other backing.....	(X)	(D)	-	(D)	-	1,163
02299 24	Secondary backing.....	166,847	(D)	5,617	158,029	(D)	607
02281 00	Jute.....	95,705	(D)	(D)	95,609	-	-
02201 05	Manmade, woven and nonwoven.....	38,393	(D)	(D)	35,882	(D)	-
03069 37	Cushion backing.....	22,504	(D)	4,474	17,232	(D)	607
03079 27	Foam or high sponge rubber.....	14,682	(D)	3,006	10,878	(D)	607
02200 23	Other (vinyl, polyurethane, etc.).....	7,822	-	1,468	6,354	-	-
	Other (scrim, solid vinyl, etc.).....	10,245	-	939	9,306	-	-

- Represents aero. (D) Data withheld to avoid disclosing figures for individual companies.

(X) Not applicable.

¹ Quantities are in 1,000 pounds.

Table 5. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF CARPET AND RUGS: 1982 AND 1981

(Quantity in 1,000 square yards; value and calculated import duty in millions of dollars)

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise ¹		Esti-mated produc-ters' value ²	Percent exports to manufacturers' shipments		Imports for consumption ³		Apparent consumption ⁵		Percent imports to apparent consumption	
		Quantity	Value	Quan- tity	Value at port		Quan- tity	Value	Quan- tity	Value ⁴	Quantity	Value	Quan- tity	Value
1982														
22710	Carpet and rugs.....	906.5	5,030.5	68.2	253.8	4,368.5	7.5	5.0	14.8	162.6	853.1	4,939.3	1.7	3.3
22720	Woven carpet and rugs.....	12.2	172.8	7.4	33.0	150.1	60.7	19.1	3.9	72.1	8.7	211.9	4.5	34.0
22790	Tufted carpet and rugs.....	853.7	4,717.7	52.6	187.9	4,096.8	6.2	4.0	4.3	40.2	805.4	4,570.0	.5	.9
	Other carpet and rugs.....	40.6	140.0	8.2	32.9	121.6	20.2	23.5	6.6	50.3	39.0	157.4	16.9	32.0
1981														
22710	Carpet and rugs.....	990.6	5,250.4	74.7	335.2	4,559.5	7.5	6.4	10.0	139.1	926.0	5,054.3	1.1	2.8
22720	Woven carpet and rugs.....	14.5	178.6	9.2	42.8	155.1	63.4	24.0	3.6	76.3	8.9	212.1	40.6	36.0
22790	Tufted carpet and rugs.....	947.2	4,956.5	57.5	256.1	4,304.2	6.1	5.2	1.5	23.7	891.2	4,724.1	.2	.1
	Other carpet and rugs.....	28.9	115.4	8.0	36.3	100.2	27.6	27.3	4.9	39.1	25.9	123.0	19.1	31.8

¹Source: Bureau of the Census report EM 546, U.S. Exports.²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8684 for industry group 227) are based on data for 1981 which are published in M81(AS)-5, Origin of Exports of Manufactured Products, appendix 8.³Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.⁴This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁵Apparent consumption is derived by subtracting exports from the total manufacturers' shipments plus imports.

Table 6. COMPARISON OF SIC CODES, TSUSA IMPORT NUMBERS, AND SCHEDULE 8 EXPORT NUMBERS

Product code	Product description	Import number	Export number
22710	Woven carpet and rugs.....	360.4000, 360.4615, 306.4625, 306.4630, 360.4635, 360.4640, 360.4645, 360.4815, 360.4830, 360.4850, 360.4825, 360.4835, 360.4855	360.8520, 360.8540, 360.8560
22720	Tufted carpet and rugs.....	360.7000, 360.8100, 360.8200, 360.8300, 360.8400	360.8020, 360.8040, 360.8060, 360.8080
22790	Other carpet and rugs.....	360.3000, 360.3500, 360.3600, 361.0510, 361.0520, 361.0530, 360.0540, 361.0700, 360.1000, 361.1820, 361.1840, 361.2015, 361.2025, 361.2035, 361.2045, 361.4200, 361.4400, 361.4600, 361.14800, 361.5610, 361.5620, 361.5630, 361.5650, 361.5660, 360.2000, 360.2500, 361.4000	360.9520, 360.9540, 360.9560

Source: Bureau of the Census, IM 145-X, U.S. Imports for Consumption and General Imports, and EM-546, D.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers all companies manufacturing carpet and rugs in the United States, except very small companies (generally less than 5 employees), for which 1977 Census of Manufactures data were derived from administrative records of other Government agencies.

Survey Methodology—The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ-22Q, Carpet and Rugs. The survey panel includes all known manufacturers of carpet and rugs (except those very small firms excluded from the scope of the survey). Approximately 225 companies are included.

Participation in the quarterly survey is voluntary. However, annual reports are required from those companies that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data—Survey error may result from several sources: (1) inability to obtain information about all cases in the survey, (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 25 percent for any one data cell. Figures with imputation rates greater than 25 percent are footnoted.

The imputation rate is an explicit indicator of the potential error in published figures due to nonresponse because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 25 percent should be used with caution.

Revisions to Previous Period Data—Data may be revised as the result of corrected figures from respondents, annual reports received for which imputations were originally made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions may include changes to prior period data resulting from reconciliation of the results of this survey with the 1980

Annual Survey of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey.

Adjustment for Price Change—All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments—The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Materials Consumed—These data include primary and secondary backing materials consumed in the manufacture of rugs, carpet, and carpeting. Materials consumed by commission plants are included in the report of the company for which the work is done. It should be noted that these data represent all materials consumed during the period; whereas, shipments data represent products physically shipped during the period.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Estimated Low-Valued Export and Import Transactions—The import statistics include estimated value data for shipments valued under \$251, based on a 1-percent sample. Effective with the statistics for March 1979, the lower limit of the value ranges for estimating data for low-value export shipments has been raised from \$251 to \$501. For countries other than Canada, effective with the March 1979 statistics, data for shipments valued \$501-\$999 (formerly \$251-\$999) are estimated based on a 50-percent sample of such shipments. As in the past, these estimates are combined with data for shipments valued \$1,000 and over, which continue to be fully compiled. For Canada, effective with the March 1979 statistics, shipments valued \$501-\$1,999 (\$251-\$1,999 prior to March 1979) are estimated, based on a 10-percent sample and are combined with fully compiled data for shipments valued \$2,000 and over. For exports to all countries, data for shipments valued under \$501 (under \$251 prior to March 1979) are also estimated, based on established percentages of individual country totals.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when

intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

HISTORICAL NOTES

Data on carpets and rugs have been collected by the Bureau of the Census since 1968. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 526-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, N.C.	(704) 372-0711
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 749-2814
Denver, Colorado	(303) 234-3924
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 824-7317
New York, New York	(212) 264-3860
Philadelphia, Pa.	(215) 597-4920
Seattle, Washington	(206) 442-7800

RELATED REPORTS

A quarterly Current Industrial Report is published in this series. The Bureau of the Census also publishes the following related reports.

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M22A	Monthly	<i>Finished Woven Fabrics (Production, Inventories, and Unfilled Orders)</i>

M22D	Monthly	<i>Consumption on the Woolen Systems and Worsted Combing</i>	FT-135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>
M22P	Monthly	<i>Consumption on the Cotton System</i>			CONTACT FOR DATA USERS
MQ22T	Quarterly	<i>Broadwoven Fabrics (Gray)</i>		Subject Area	Contact
MQ23X	Quarterly	<i>Sheets, Pillowcases, and Towels</i>		Current Industrial Report MQ-22Q	Judy Dodds (301) 763-7536
MA22F.1	Annually	<i>Textured Yarn Production</i>		Manufacturers' Shipments, Inventories, and Orders	Kathleen Menth (301) 763-2575
MA22F.2	Annually	<i>Spun Yarn Production</i>			
MA22G	Annually	<i>Narrow Fabrics</i>		Census/ASM	Charles Lee (301) 763-5152
MA22K	Annually	<i>Knit Fabric Production</i>		To order a Census Bureau publication	Customer Services (DUSD) (301) 763-4100
MA22S	Annually	<i>Broadwoven Fabrics Finished</i>			
MA22M	Biennially	<i>Stocks of Wool and Related Fiber</i>		Foreign Trade publication	Juanita Noone (301) 763-5140

Other Industry Reports

M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>
(MC)	Quinquennially	<i>Census of Manufactures</i>

Foreign Trade Reports

FT-410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>
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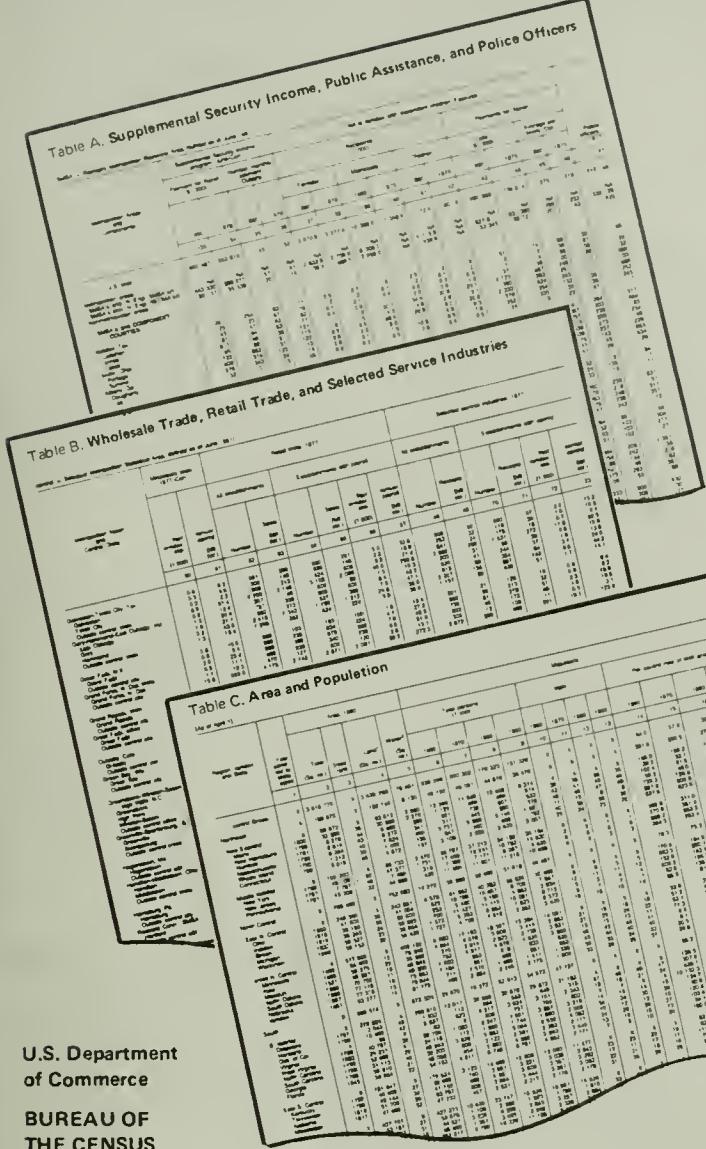
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Carpet and Rugs

SUMMARY FOR 1983

MQ22Q(83)-5
Issued August 1984

SUMMARY OF FINDINGS

Total value of shipment of carpet and rugs increased 21 percent in 1983 to \$6,045.3 million from \$4,960.8 million in 1982. Quantity shipments increased 10 percent from 885.8

million sq. yds. in 1982 to 1,090.1 million in 1983. The average unit price for total carpeting decreased slightly from \$5.60 to \$5.54.

A description of the survey methodology and related information appears on page 6.

Table 1. SHIPMENTS OF CARPET AND RUGS: 1973 TO 1983

(Millions of dollars)

Year	Rugs, carpet and carpeting	Woven carpet and rugs	Tufted carpet and rugs	Other carpet and rugs
1983.....	6,045.3	219.7	5,656.8	168.8
1982.....	4,960.8	194.7	4,621.1	145.0
1981.....	5,250.4	178.6	4,956.5	115.4
1980.....	4,913.8	197.8	4,617.5	98.6
1979.....	5,099.1	200.4	4,805.3	93.4
1978.....	4,772.6	178.1	4,492.8	101.6
1977.....	4,298.7	155.8	4,050.3	92.6
1976.....	3,636.5	151.8	3,401.3	83.4
1975.....	3,092.2	156.6	2,856.0	79.6
1974.....	3,328.8	182.5	3,043.9	102.3
1973.....	3,360.5	193.5	3,064.4	102.6

Note: Detail may not add to total due to independent rounding.

Table 2. TOTAL SHIPMENTS OF CARPET AND RUGS, BY QUARTER: 1983 AND 1982

(Quantity in thousands of square yards; value in thousands of dollars)

Year and quarter	Quantity	Value
1983		
Total.....	1,090,071	6,045,255
Fourth quarter.....	296,174	1,707,891
Third quarter.....	285,862	1,598,758
Second quarter.....	274,176	1,488,402
First quarter.....	233,859	1,250,204
1982		
Total.....	885,811	4,960,753
Fourth quarter.....	217,136	1,251,410
Third quarter.....	219,707	1,258,385
Second quarter.....	235,155	1,277,821
First quarter.....	213,813	1,173,137

Table 3A. SHIPMENTS OF CARPET AND RUGS: 1983

(Quantity in thousands of square yards; value in thousands of dollars)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
	Total.....	1,090,071	6,045,255	233,859	1,250,204	274,176	1,488,402
2710 00	Woven carpet and rugs.....	16,948	219,699	4,689	49,593	4,221	55,577
22720 01	Tufted carpet and rugs.....	1,014,377	5,656,773	217,307	1,165,988	253,650	1,388,250
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	72,869	339,372	14,906	68,416	16,277	75,807
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	874,225	4,996,626	186,443	1,025,175	218,368	1,226,171
22720 25	Tufted artificial grass for nonathletic surface.....	21,112	56,738	5,424	14,505	7,432	19,738
	Artificial grass.....	46,171	264,037	10,534	57,892	11,573	66,534
22790 10	Automobile and aircraft carpeting.....	58,746	168,783	11,863	34,623	16,305	44,575
22790 74	Other carpet and rugs.....	6,277	45,901	1,516	10,540	1,612	11,588
22790 79	Knitted.....	45,639	93,118	8,918	18,104	13,017	25,989
	Needle punched.....	6,830	29,764	1,429	5,979	1,676	6,998
	Braided, hooked, and other carpet and rugs n.e.c.....						
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
	Total.....	285,862	1,598,758	296,174	1,707,891		
22710 00	Woven carpet and rugs.....	4,138	57,895	3,900	56,634		
22720 01	Tufted carpet and rugs.....	264,702	1,494,943	278,718	1,607,592		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	17,822	82,433	23,864	112,716		
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	230,415	1,331,814	238,999	1,413,466		
22720 25	Tufted artificial grass for nonathletic surface.....	4,554	12,692	3,702	9,803		
	Artificial grass.....	11,911	68,004	12,153	71,607		
22790 10	Automobile and aircraft carpeting.....	17,022	45,920	13,556	43,665		
22790 74	Other carpet and rugs.....	1,691	12,767	1,458	11,006		
22790 79	Knitted.....	13,435	24,663	10,269	24,362		
	Needle punched.....	1,896	8,490	1,829	8,297		
	Braided, hooked, and other carpet and rugs n.e.c.....						

N.e.c. Not elsewhere classified.

Table 38. SHIPMENTS OF CARPET AND RUGS: 1982

(Quantity in thousands of square yards; value in thousands of dollars)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
	Total.....	885,811	4,960,753	213,813	1,173,137	235,155	1,277,821
22710 00	Woven carpet and rugs.....	13,592	194,659	3,563	48,341	3,712	48,643
22720 01	Tufted carpet and rugs.....	830,424	4,621,098	199,255	1,086,434	218,826	1,190,918
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	55,394	277,080	13,575	68,233	14,114	67,160
22720 09	Roll goods and rugs larger than 6' x 9', excluding						
22720 25	artificial grass.....	721,847	4,107,496	172,302	962,018	189,007	1,056,731
	Tufted artificial grass for nonathletic surface.....	21,432	56,493	5,925	14,745	6,673	17,533
	Automobile and aircraft carpeting.....	31,751	180,029	7,453	41,438	9,032	49,494
	Other carpet and rugs.....	41,795	144,996	10,995	38,362	12,617	38,260
22790 10	Knitted.....	5,565	46,528	1,170	11,901	1,261	9,507
22790 74	Needle punched.....	30,336	72,031	8,155	19,778	10,100	22,800
22790 79	Braided, hooked, and other carpet and ruga n.e.c.....	5,894	26,437	1,670	6,683	1,256	5,953
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
	Total.....	219,707	1,258,385	217,136	1,251,410		
22710 00	Woven carpet and rugs.....	3,238	46,306	3,079	51,369		
22720 01	Tufted carpet and rugs.....	205,924	1,175,126	206,419	1,168,620		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	13,283	66,243	14,422	75,444		
22720 09	Roll goods and rugs larger than 6' x 9', excluding						
22720 25	artificial grass.....	179,642	1,047,481	180,896	1,041,266		
	Tufted artificial grass for nonathletic surface.....	4,685	12,870	4,149	11,345		
	Automobile and aircraft carpeting.....	8,314	48,532	6,952	40,565		
	Other carpet and rugs.....	10,545	36,953	7,638	31,421		
22790 10	Knitted.....	1,508	12,273	1,626	12,847		
22790 74	Needle punched.....	7,617	18,031	4,464	11,422		
22790 79	Braided, hooked, and other carpet and ruga n.e.c.....	1,420	6,649	1,548	7,152		

N.e.c. Not elsewhere classified.

Table 4. BACKING CONSUMED IN THE MANUFACTURE OF CARPET AND RUGS, BY TYPE OF CARPETING, 1983

(Quantity in thousands of square yards)

Product code	Type of yarn or fabric	Total	Woven	Bathmats and throw rugs (6'x9' and smaller)	Tufted roll goods and rugs (larger than 6'x9')	Auto and aero	Other carpet and rugs (except woven and tufted)
TOTAL 1983							
02201 03	Primary backing.....	(Y)	113,855	67,616	871,927	42,974	11,834
02299 22	Cotton.....	(X)	(D)	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	4,266	-	41,213	(D)	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	7,605	(D)	825,153	29,690	(D)
	Other backing.....	(X)	(D)	-	(D)	-	7,645
02299 24	Secondary backing.....	846,043	(D)	33,809	785,889	18,684	(D)
02281 00	Jute.....	432,929	(D)	-	(D)	-	-
02201 05	Manmade, woven and nonwoven.....	239,636	(D)	(D)	219,933	(D)	-
03069 37	Cushion backing.....	117,422	(D)	30,815	82,453	(D)	(D)
03079 27	Foam or high sponge rubber.....	85,553	(D)	(D)	58,498	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	31,869	-	(D)	23,955	-	(D)
	Other (scrim, solid vinyl, etc.).....	56,056	-	(D)	(D)	(D)	(D)
FIRST QUARTER							
02201 03	Primary backing.....	(X)	14,053	16,393	187,815	10,279	2,480
02299 22	Cotton.....	(X)	(D)	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	1,557	-	6,694	(D)	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	1,935	(D)	179,656	6,938	(D)
	Other backing.....	(X)	(D)	-	(D)	-	1,511
02299 24	Secondary backing.....	195,809	(D)	9,352	181,163	4,112	(D)
02281 00	Jute.....	103,887	(D)	-	(D)	-	-
02201 05	Manmade, woven and nonwoven.....	48,310	(D)	(D)	43,971	(D)	-
03069 37	Cushion backing.....	30,577	(D)	8,746	20,781	(D)	(D)
03079 27	Foam or high sponge rubber.....	22,476	(D)	(D)	14,718	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	8,101	-	(D)	6,063	-	(D)
	Other (scrim, solid vinyl, etc.).....	13,035	-	(D)	(D)	(D)	(D)
SECOND QUARTER							
02201 03	Primary backing.....	(X)	13,282	13,393	214,299	11,323	3,497
02299 22	Cotton.....	(X)	(D)	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	847	-	8,313	(D)	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	1,922	(D)	204,891	7,812	(D)
	Other backing.....	(X)	(D)	-	(D)	-	2,440
02299 24	Secondary backing.....	215,460	(D)	7,938	200,660	4,509	(D)
02281 00	Jute.....	108,400	(D)	-	(D)	-	-
02201 05	Manmade, woven and nonwoven.....	60,644	(D)	(D)	55,848	(D)	-
03069 37	Cushion backing.....	32,228	(D)	7,208	24,060	(D)	(D)
03079 27	Foam or high sponge rubber.....	25,093	(D)	(D)	18,569	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	7,135	-	(D)	5,491	-	(D)
	Other (scrim, solid vinyl, etc.).....	14,188	-	(D)	(D)	(D)	(D)
THIRD QUARTER							
02201 03	Primary backing.....	(X)	13,441	17,628	228,736	12,154	3,721
02299 22	Cotton.....	(X)	(D)	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	920	-	10,634	(D)	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	2,061	(D)	216,735	10,117	(D)
	Other backing.....	(X)	(D)	-	(D)	-	2,639
02299 24	Secondary backing.....	216,433	(D)	7,451	201,502	4,717	(D)
02281 00	Jute.....	109,676	(D)	-	(D)	-	-
02201 05	Manmade, woven and nonwoven.....	64,100	(D)	(D)	59,136	(D)	-
03069 37	Cushion backing.....	28,653	(D)	6,644	20,841	(D)	(D)
03079 27	Foam or high sponge rubber.....	19,831	(D)	(D)	13,930	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	8,822	-	(D)	6,911	-	(D)
	Other (scrim, solid vinyl, etc.).....	14,004	-	(D)	(D)	(D)	(D)
FOURTH QUARTER							
02201 03	Primary backing.....	(X)	13,079	20,202	241,077	9,218	2,136
02299 22	Cotton.....	(X)	(D)	(D)	(D)	(D)	(D)
02201 05	Jute.....	(X)	942	-	15,572	(D)	(D)
02200 14	Manmade (rayon and/or acetate, nylon, polyester, polypropylene, etc.).....	(X)	1,687	(D)	223,871	4,823	(D)
	Other backing.....	(X)	(D)	-	(D)	-	1,055
02299 24	Secondary backing.....	218,341	(D)	9,068	202,564	5,346	(D)
02281 00	Jute.....	110,966	(D)	-	(D)	-	-
02201 05	Manmade, woven and nonwoven.....	66,582	(D)	(D)	60,978	(D)	-
03069 37	Cushion backing.....	25,964	(D)	8,217	16,771	(D)	(D)
03079 27	Foam or high sponge rubber.....	18,153	(D)	(D)	11,281	(D)	(D)
02200 23	Other (vinyl, polyurethane, etc.).....	7,811	-	(D)	5,490	-	(D)
	Other (scrim, solid vinyl, etc.).....	14,829	-	(D)	(D)	(D)	(D)

- Represents aero. (D) Data withheld to avoid disclosing figures for individual companies. (X) Not applicable.

1 Quantities are in 1,000 pounds.

Table 5. COMPARISON OF VALUES OF CARPET AND RUGS REPORTED IN MO22Q AND 1982 CENSUS OF MANUFACTURES

(Quantity in millions of square yards; value in millions of dollars)

Product code	Product description	MO22Q				1982 Census of Manufactures	
		1983		1982			
		Quantity	Value	Quantity	Value	Quantity	Value
22710	Woven carpet and rugs.....	16.9	219.7	13.6	194.7	14.4	205.0
22720	Tufted carpet and rugs.....	1,014.4	5,656.8	830.4	4,621.1	821.2	4,454.6
22790	Other carpet and rugs.....	58.7	168.8	41.8	145.0	40.0	144.9

Table 6. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF CARPET AND RUGS: 1983 AND 1982

(Quantity in millions of square yards; value and calculated import duty in millions of dollars)

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise ¹		Esti- mated produc- ers' value ²	Percent exports to manufacturers' shipments		Imports for consumption ³		Apparent consumption ⁵		Percent imports to apparent consumption	
		Quantity	Value	Quan- tity	Value at port		Quan- tity	Value	Quan- tity	Value ⁴	Quantity	Value	Quan- tity	Value
	1983													
	Carpet and rugs.....	1,090.1	6,045.3	48.4	264.2	229.5	4.4	4.4	18.4	187.8	1,060.1	5,968.9	1.7	3.1
22710	Woven carpet and rugs.....	16.9	219.7	6.0	38.1	33.1	35.5	17.3	6.5	88.2	17.4	269.8	37.3	32.7
22720	Tufted carpet and rugs.....	1,014.4	5,656.8	36.4	198.7	172.6	3.6	3.5	4.8	41.8	982.8	5,499.9	0.5	0.8
22790	Other carpet and rugs.....	58.7	168.8	6.0	27.4	23.8	10.2	16.2	7.1	57.8	59.8	199.2	11.9	29.0

Note: Comparison of SIC-based codes with Schedule B export numbers and TSUSA import numbers is shown in table 7.

¹Source: Bureau of the Census report EM 546, U.S. Exports.²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8684 for industry group 227) are based on data for 1981 which are published in M81(AS)-5, Origin of Exports of Manufactured Products, appendix B.³Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.⁴This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁵Apparent consumption is derived by subtracting exports from the total manufacturers' shipments plus imports.

Table 7. COMPARISON OF SIC CODES, TSUSA IMPORT NUMBERS, AND SCHEDULE B EXPORT NUMBERS

Product code	Product description	Import number	Export number
22710	Woven carpet and rugs.....	360.2000, 360.2500, 306.3000, 306.3500, 360.3600 360.4215, 360.4225, 360.4330, 360.4335, 360.4440, 360.4445, 360.4830, 360.4850, 360.4825, 360.4835, 360.4855	360.8520, 360.8540, 360.8560
22720	Tufted carpet and rugs.....	360.6500, 360.7000, 360.8100, 360.8200, 360.8300, 360.8400	360.8020, 360.8040, 360.8060, 360.8080
22790	Other carpet and rugs.....	360.7600, 360.7700, 360.7800, 360.7900, 361.0510, 361.0520, 361.0530, 360.0540, 361.0700, 361.1000, 361.1820, 361.1840, 361.2100, 361.2300, 361.2405, 361.2410, 361.2600, 361.4200, 361.4300, 361.4500, 361.4600, 361.4800, 361.5000, 316.5200, 361.5300, 361.5420, 361.5426, 361.5610, 361.5620, 361.5630, 361.5650, 361.5660,	360.9520, 360.9540, 360.9560

Source: Bureau of the Census, IM 145-X, U.S. Imports for Consumption and General Imports, and EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers all companies manufacturing carpet and rugs in the United States, except very small companies (generally less than 5 employees), for which 1982 Census of Manufactures data were derived from administrative records of other Government agencies.

Survey Methodology—The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ22Q, Carpet and Rugs. The survey panel includes all known manufacturers of carpet and rugs (except those very small firms excluded from the scope of the survey). Approximately 225 companies are included.

Participation in the quarterly survey is voluntary. However, annual reports are required from those companies that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data—Survey error may result from several sources: (1) inability to obtain information about all cases in the survey, (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 25 percent for any one data cell. Figures with imputation rates greater than 25 percent are footnoted.

The imputation rate is an explicit indicator of the potential error in published figures due to nonresponse because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 25 percent should be used with caution.

Revisions to Previous Period Data—Data may be revised as the result of corrected figures from respondents, annual reports received for which imputations were originally made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions may include changes to prior period data resulting from reconciliation of the results of this survey with the 1982

Census of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey.

Adjustment for Price Change—All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments—The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Materials Consumed—These data include primary and secondary backing materials consumed in the manufacture of rugs, carpet, and carpeting. Materials consumed by commission plants are included in the report of the company for which the work is done. It should be noted that these data represent all materials consumed during the period; whereas, shipments data represent products physically shipped during the period.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantity and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation—There are different methods of valuation for the three types of data:

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Estimated Low-Valued Export and Import Transactions—The import statistics include estimated value data for shipments valued under \$251, based on a 1-percent sample. Effective with the statistics for March 1979, the lower limit of the value ranges for estimating data for low-value export shipments has been raised from \$251 to \$501. For countries other than Canada, effective with the March 1979 statistics, data for shipments valued \$501-\$999 (formerly \$251-\$999) are estimated based on a 50-percent sample of such shipments. As in the past, these estimates are combined with data for shipments valued \$1,000 and over, which continue to be fully compiled. For Canada, effective with the March 1979 statistics, shipments valued \$501-\$1,999 (\$251-\$1,999 prior to March 1979) are estimated, based on a 10-percent sample and are combined with fully compiled data for shipments valued \$2,000 and over. For exports to all countries, data for shipments valued under \$501 (under \$251 prior to March 1979) are also estimated, based on established percentages of individual country totals.

Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when

intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

HISTORICAL NOTES

Data on carpets and rugs have been collected by the Bureau of the Census since 1968. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 526-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, N.C.	(704) 372-0711
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 749-2814
Denver, Colorado	(303) 234-3924
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 824-7317
New York, New York	(212) 264-3860
Philadelphia, Pa.	(215) 597-4920
Seattle, Washington	(206) 442-7800

RELATED REPORTS

A quarterly Current Industrial Report is published in this series. The Bureau of the Census also publishes the following related reports.

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M22A	Monthly	<i>Finished Woven Fabrics (Production, Inventories, and Unfilled Orders)</i>

M22D	Monthly	<i>Consumption on the Woolen Systems and Worsted Combing</i>	FT135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>
M22P	Monthly	<i>Consumption on the Cotton System</i>	CONTACT FOR DATA USERS		
Subject Area					
MQ22T	Quarterly	<i>Broadwoven Fabrics (Gray)</i>	Current Industrial Report MQ22Q	Valerie Cherry	(301) 763-5809
MQ23X	Quarterly	<i>Sheets, Pillowcases, and Towels</i>	Manufacturers' Shipments, Inventories, and Orders	Kathleen Menth	(301) 763-2575
MA22F.1	Annually	<i>Textured Yarn Production</i>	Census/ASM	Charles Lee	(301) 763-5152
MA22F.2	Annually	<i>Spun Yarn Production</i>	To order a Census Bureau publication	Customer Services (DUSD)	(301) 763-4100
MA22G	Annually	<i>Narrow Fabrics</i>	Foreign Trade publication	Juanita Noone	(301) 763-5140
MA22K	Annually	<i>Knit Fabric Production</i>			
MA22S	Annually	<i>Broadwoven Fabrics Finished</i>			
MA22M	Biennially	<i>Stocks of Wool and Related Fiber</i>			
Other Industry Reports					
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>	INDUSTRY FINANCING		
(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>	This survey is funded, in part, by the Carpet and Rug Institute.		
(MC)	Quinquennially	<i>Census of Manufactures</i>	ACKNOWLEDGMENTS		
Foreign Trade Reports					
FT410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>	This report was prepared in the Industry Division, Bureau of the Census, under the direction of Carole A. Ambler, Chief, Current Nondurables Branch, and Judy Dodds, Chief, Textile and Apparel Section. Valerie Cherry was directly responsible for the review and preparation of this report. Gaylord Worden, Chief, of the Division, and Thomas L. Mesenbourg, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.		

STATE AND METROPOLITAN AREA DATA BOOK 1982

Table A. Supplemental Security Income, Public Assistance, and Police Officers	
1980	1979
1980	1979
1980	1979
1980	1979

Table B. Wholesale Trade, Retail Trade, and Selected Service Industries	
1980	1979
1980	1979
1980	1979
1980	1979

Table C. Area and Population	
1980	1979
1980	1979
1980	1979
1980	1979

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Applied Time Series Analysis of Economic Data



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*Proceedings of the Conference on
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Carpet and Rugs

SUMMARY FOR 1984

MQ22Q(84)-5
Issued June 1985

SUMMARY FOR FINDINGS

Total value of shipment of carpet and rugs increased 7 percent in 1984 to \$6,461.5 million from \$6,045.3 million in 1983. Quantity shipments increased 2 percent from 1,090.1 million

sq. yds. in 1983 to 1,114.9 million in 1984. The average unit price for total carpeting increased slightly from \$5.54 to \$5.79.

A description of the survey methodology and related information appears on page 5.

Table 1. SHIPMENTS OF CARPET AND RUGS: 1974 TO 1984

(Millions of dollars)

Year	Rugs, carpet and carpeting	Woven carpet and rugs	Tufted carpet and rugs	Other carpet and rugs
1984.....	6,461.5	215.6	6,088.2	157.7
1983.....	6,045.3	219.7	5,656.8	168.8
1982.....	4,960.8	194.7	4,621.1	145.0
1981.....	5,250.4	178.6	4,956.5	115.4
1980.....	4,913.8	197.8	4,617.5	98.6
1979.....	5,099.1	200.4	4,805.3	93.4
1978.....	4,772.6	178.1	4,492.8	101.6
1977.....	4,298.7	155.8	4,050.3	92.6
1976.....	3,636.5	151.8	3,401.3	83.4
1975.....	3,092.2	156.6	2,856.0	79.6
1974.....	3,328.8	182.5	3,043.9	102.3

Note: Detail may not add to total due to independent rounding.

Table 2. TOTAL SHIPMENTS OF CARPET AND RUGS, BY QUARTER: 1984 AND 1983

(Quantity in thousands of square yards; value in thousands of dollars)

Year and quarter	Quantity	Value
1984		
Total.....	1,114,920	6,461,516
Fourth quarter.....	276,924	1,588,708
Third quarter.....	295,756	1,697,569
Second quarter.....	276,297	1,600,005
First quarter.....	265,943	1,575,234
1983		
Total.....	1,090,071	6,045,255
Fourth quarter.....	296,174	1,707,891
Third quarter.....	285,862	1,598,758
Second quarter.....	274,176	1,488,402
First quarter.....	233,859	1,250,204

Table 3A. SHIPMENTS OF CARPET AND RUGS: 1984

(Quantity in thousands of square yards; value in thousands of dollars)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
22710 00	Total.....	1,114,920	6,461,516	276,924	1,588,708	295,756	1,697,569
22710 00	Woven carpet and rugs.....	14,750	215,604	3,394	48,526	3,946	58,533
22720 01	Tufted carpet and rugs.....	1,058,641	6,088,200	263,545	1,504,830	280,435	1,596,741
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	72,454	313,595	20,508	94,590	18,101	76,166
22720 03	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	899,296	5,405,926	222,090	1,321,259	239,009	1,424,702
22720 09	Tufted artificial grass for nonathletic surface.....	20,430	55,299	5,769	14,662	7,130	18,929
22720 25	Automobile and aircraft carpeting.....	66,461	313,380	15,167	74,319	16,187	76,944
22790 10	Other carpet and rugs.....	41,529	157,712	9,996	35,352	11,375	42,295
22790 74	Knitted.....	6,201	49,925	1,474	10,906	1,636	13,532
22790 74	Needle punched.....	27,481	65,673	7,066	16,398	7,773	18,598
22790 79	Braided, hooked, and other carpet and rugs n.e.c.....	7,847	42,114	1,456	8,048	1,966	10,165
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value	Quantity	Value
22710 00	Total.....	276,297	1,600,005	265,943	1,575,234		
22710 00	Woven carpet and rugs.....	3,870	57,166	3,540	51,379		
22720 01	Tufted carpet and rugs.....	261,481	1,499,586	253,191	1,487,043		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	16,609	72,163	17,228	70,676		
22720 03	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	223,546	1,336,899	214,651	1,323,066		
22720 09	Tufted artificial grass for nonathletic surface.....	41,434	12,748	3,097	8,960		
22720 25	Automobile and aircraft carpeting.....	16,892	77,776	18,215	84,341		
22790 10	Other carpet and rugs.....	10,946	43,253	9,212	36,812		
22790 74	Knitted.....	1,850	15,030	1,241	10,457		
22790 74	Needle punched.....	7,044	17,192	5,598	13,485		
22790 79	Braided, hooked, and other carpet and rugs n.e.c.....	2,052	11,031	2,373	12,870		

N.e.c. Not elsewhere classified.

Table 3B. SHIPMENTS OF CARPET AND RUGS: 1983

(Quantity in thousands of square yards; value in thousands of dollars)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
	Total.....	1,090,071	6,045,255	233,859	1,250,204	274,176	1,488,402
22710 00	Woven carpet and rugs.....	16,948	219,699	4,689	49,593	4,221	55,577
22720 01	Tufted carpet and rugs.....	1,014,377	5,656,773	217,307	1,165,988	253,650	1,388,250
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	72,869	339,372	14,906	68,416	16,277	75,807
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	874,225	4,996,626	186,443	1,025,175	218,368	1,226,171
22720 25	Tufted artificial grass for nonathletic surface.....	21,112	56,738	5,424	14,505	7,432	19,738
	Automobile and aircraft carpeting.....	46,171	264,037	10,534	57,892	11,573	66,534
22790 10	Other carpet and rugs.....	58,746	168,783	11,863	34,623	16,305	44,575
22790 74	Knitted.....	6,277	45,901	1,516	10,540	1,612	11,588
22790 79	Needle punched.....	45,639	93,118	8,918	18,104	13,017	25,989
	Braided, hooked, and other carpet and rugs n.e.c.....	6,830	29,764	1,429	5,979	1,676	6,998
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
	Total.....	285,862	1,598,758	296,174	1,707,891		
22710 00	Woven carpet and rugs.....	4,138	57,895	3,900	56,634		
22720 01	Tufted carpet and rugs.....	264,702	1,494,943	278,718	1,607,592		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	17,822	82,433	23,864	112,716		
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	230,415	1,331,814	238,999	1,413,466		
22720 25	Tufted artificial grass for nonathletic surface.....	4,554	12,692	3,702	9,803		
	Automobile and aircraft carpeting.....	11,911	68,004	12,153	71,607		
22790 10	Other carpet and rugs.....	17,022	45,920	13,556	43,665		
22790 74	Knitted.....	1,691	12,767	1,458	11,006		
22790 79	Needle punched.....	13,435	24,663	10,269	24,362		
	Braided, hooked, and other carpet and rugs n.e.c.....	1,896	8,490	1,829	8,297		

N.e.c. Not elsewhere classified.

Table 4. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF CARPET AND RUGS: 1984

(Quantity in millions of square yards; value and calculated import duty in millions of dollars)

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise ¹		Estimated producers' value ²	Percent exports to manufacturers' shipments		Imports for consumption ³		Apparent consumption ⁵		Percent imports to apparent consumption	
		Quantity	Value	Quantity	Value at port		Quantity	Value	Quantity	Value ⁴	Quantity	Value	Quantity	Value
	1984													
	Carpet and rugs.....	1,114.9	6,461.5	35.9	216.4	188.0	3.2	3.3	42.6	335.1	1,121.6	6,580.2	3.8	5.1
22710	Woven carpet and rugs.....	14.8	215.6	4.4	33.4	29.0	29.7	15.5	11.5	131.9	21.9	314.1	52.5	42.0
22720	Tufted carpet and rugs.....	1,058.6	6,088.2	26.7	158.3	137.5	2.5	2.6	18.2	117.6	1,050.1	6,047.5	1.7	1.9
22790	Other carpet and rugs.....	41.5	157.7	4.8	24.7	21.5	11.6	15.7	12.9	85.6	49.6	218.6	26.0	39.2

Note: Comparison of SIC-based codes with Schedule B export numbers and TSUSA import numbers is shown in table 5.

¹Source: Bureau of the Census report EM 54b, U.S. Exports.²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8684 for industry group 227) are based on data for 1981 which are published in M81(AS)-5, Origin of Exports of Manufactured Products, appendix B.³Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.⁴This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁵Apparent consumption is derived by subtracting exports from the total manufacturers' shipments plus imports.

Table 5. COMPARISON OF SIC CODES, TSUSA IMPORT NUMBERS, AND SCHEDULE B EXPORT NUMBERS

Product code	Product description	Import number	Export number
22710	Woven carpet and rugs.....	360.2000, 360.2500, 360.3000, 360.3500, 360.3600, 360.4000, 360.4215, 360.4225, 360.4330, 360.4335, 360.4440, 360.4445, 360.4815, 360.4830, 360.4850, 360.4825 360.4835, 360.4855	360.8520, 360.8540, 360.8560
22720	Tufted carpet and rugs.....	360.6500, 360.7000, 360.7600, 360.7700, 360.7800, 360.7900, 360.8100, 360.8200, 360.8300, 360.8400	360.8020, 360.8040, 360.8060, 360.8080
22790	Other carpet and rugs.....	361.0510, 361.0520, 361.0530, 360.0540, 361.0700, 361.1000, 361.1820, 361.1840, 361.2100, 361.2300, 361.2405, 361.2410, 361.2600, 361.4200, 361.4300, 361.4500, 361.4600, 361.4800, 361.5000, 361.5200, 361.5300, 361.5420, 361.5426, 361.5610, 361.5620, 361.5630, 361.5650, 361.5660,	360.9520, 360.9540, 360.9560

Source: Bureau of the Census, IM 145-X, U.S. Imports for Consumption and General Imports, and EM-54b, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers all companies manufacturing carpet and rugs in the United States, except very small companies (generally less than 5 employees), for which 1982 Census of Manufactures data were derived from administrative records of other Government agencies.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ22Q, Carpet and Rugs. The survey panel includes all known manufacturers of carpet and rugs (except those very small firms excluded from the scope of the survey). Approximately 226 companies are included.

Participation in the quarterly survey is voluntary. However, annual reports are required from those companies that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These non-sampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which failed the edit. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 25 percent for any one data cell. Figures with imputation rates greater than 25 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 25 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous quarters may be revised as the result of corrected data from respondents, including the receipt of late reports for which imputations were made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- **Domestic Output**—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.
- **Exports**—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Materials Consumed. These data include primary and secondary backing materials consumed in the manufacture of rugs, carpet, and carpeting. Materials consumed by commission plants are included in the report of the company for which the work is done. It should be noted that these data represent all materials consumed during the period; whereas, shipments data represent products physically shipped during the period.

- **Imports**—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual import shipments valued at not more than \$250 or for individual export shipments valued at not more than \$500. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

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MQ23X	Quarterly	Sheets, Pillowcases, and Towels
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(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>			
(MC)	Quinquennially	<i>Census of Manufactures</i>			
<i>Foreign Trade Reports</i>			This survey is funded, in part, by the Carpet and Rug Institute.		
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INDUSTRY FINANCING

This report was prepared in the Industry Division, Bureau of the Census, under the direction of Carole A. Ambler, Chief, Current Nondurables Branch, and Judy Dodds, Chief, Textile and Apparel Section. Valerie Cherry was directly responsible for the review and preparation of this report. Gaylord Worden, Chief, of the Division, and Thomas L. Mesenbourg, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.

ACKNOWLEDGMENTS

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U.S. Department of Commerce
BUREAU OF THE CENSUS

Carpet and Rugs

SUMMARY FOR 1985

MQ22Q(85)-5
Issued April 1986

SUMMARY FOR FINDINGS

Total value of shipments of carpet and rugs increased 2 percent in 1985 to \$6,605.7 million from \$6,461.5 million in 1984. Quantity shipments increased 4 percent from 1,114.9 million

square yards in 1984 to 1,159.2 million in 1985. The average unit price for total carpeting decreased slightly from \$5.79 to \$5.70.

A description of the survey methodology and related information appears on page 4.

Note: This survey will no longer be conducted quarterly. Similar data will be collected and published on an annual basis for 1986.

Table 1. SHIPMENTS OF CARPET AND RUGS: 1975 TO 1985

(Millions of dollars)

Year	Rugs, carpet and carpeting	Woven carpet and rugs	Tufted carpet and rugs	Other carpet and rugs
1985.....	6,605.7	227.8	6,224.7	153.2
1984.....	6,461.5	215.6	6,088.2	157.7
1983.....	6,045.3	219.7	5,656.8	168.8
1982.....	4,960.8	194.7	4,621.1	145.0
1981.....	5,250.4	178.6	4,956.5	115.4
1980.....	4,913.8	197.8	4,617.5	98.6
1979.....	5,099.1	200.4	4,805.3	93.4
1978.....	4,772.6	178.1	4,492.8	101.6
1977.....	4,298.7	155.8	4,050.3	92.6
1976.....	3,636.5	151.8	3,401.3	83.4
1975.....	3,092.2	156.6	2,856.0	79.6

Note: Detail may not add to total due to independent rounding.

Table 2. TOTAL SHIPMENTS OF CARPET AND RUGS, BY QUARTER: 1985 AND 1984

(Quantity in thousands of square yards; value in thousands of dollars)

Year and quarter	Quantity	Value
1985		
Total.....	1,159,155	6,605,686
Fourth quarter.....	287,710	1,653,422
Third quarter.....	301,240	1,714,742
Second quarter.....	305,975	1,729,811
First quarter.....	264,230	1,507,711
1984		
Total.....	1,114,920	6,461,516
Fourth quarter.....	276,924	1,588,708
Third quarter.....	295,756	1,697,569
Second quarter.....	276,297	1,600,005
First quarter.....	265,943	1,575,234

Table 3A. SHIPMENTS OF CARPET AND RUGS: 1985

(Quantity in thousands of square yards; value in thousands of dollars)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
22710 00	Total.....	1,159,155	6,605,686	264,230	1,507,711	305,975	1,729,811
22710 00	Woven carpet and rugs.....	15,187	227,779	3,459	50,777	3,866	62,366
22720 01	Tufted carpet and rugs.....	1,099,432	6,224,678	250,101	1,421,297	287,652	1,620,501
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	62,598	318,331	15,146	69,010	14,434	79,977
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	929,033	5,437,499	207,116	1,229,084	243,123	1,416,028
22720 25	Tufted artificial grass for nonathletic surface.....	24,456	58,743	7,463	18,199	9,420	22,050
22790 10	Automobile and aircraft carpeting.....	83,345	410,105	20,376	105,004	20,675	102,446
22790 74	Other carpet and rugs.....	44,536	153,229	10,670	35,637	14,457	46,944
22790 79	Knitted.....	6,147	46,858	1,119	8,129	1,772	13,748
22790 79	Needle punched.....	30,869	61,902	7,267	14,888	10,802	21,973
22790 79	Braided, hooked, and other carpet and rugs n.e.c.....	7,520	44,469	2,284	12,620	1,883	11,223
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
22710 00	Total.....	301,240	1,714,742			287,710	1,653,422
22710 00	Woven carpet and rugs.....	3,923	57,915			3,939	56,721
22720 01	Tufted carpet and rugs.....	285,724	1,615,999			275,955	1,566,881
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	15,655	77,005			17,363	92,339
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	243,625	1,424,001			235,169	1,368,386
22720 25	Tufted artificial grass for nonathletic surface.....	5,353	12,868			2,220	5,626
22790 10	Automobile and aircraft carpeting.....	21,091	102,125			21,203	100,530
22790 74	Other carpet and rugs.....	11,593	40,828			7,816	29,820
22790 79	Knitted.....	1,634	12,593			1,622	12,388
22790 79	Needle punched.....	8,015	16,185			4,785	8,856
22790 79	Braided, hooked, and other carpet and rugs n.e.c.....	1,944	12,050			1,409	8,576

N.e.c. Not elsewhere classified.

Table 3B. SHIPMENTS OF CARPET AND RUGS: 1984

(Quantity in thousands of square yards; value in thousands of dollars)

Product code	Product description	Total		First quarter		Second quarter	
		Quantity	Value	Quantity	Value	Quantity	Value
	Total.....	1,114,920	6,461,516	276,924	1,588,708	295,756	1,697,569
22710 00	Woven carpet and rugs.....	14,750	215,604	3,394	48,526	3,946	58,533
22720 01	Tufted carpet and rugs.....	1,058,641	6,088,200	263,534	1,504,830	280,435	1,596,741
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	72,454	313,595	20,508	94,590	18,109	76,166
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	899,296	5,405,926	222,090	1,321,259	239,009	1,424,702
22720 25	Tufted artificial grass for nonathletic surface.....	20,430	55,299	5,769	14,662	7,130	18,929
	Automobile and aircraft carpeting.....	66,461	313,380	15,167	74,319	16,187	76,944
22790 10	Other carpet and rugs.....	41,529	157,712	9,996	35,352	11,375	42,295
22790 74	Knitted.....	6,201	49,925	1,474	10,906	1,636	13,532
22790 79	Needle punched.....	27,481	65,673	7,066	16,398	7,773	18,598
	Braided, hooked, and other carpet and rugs n.e.c.....	7,847	42,114	1,456	8,048	1,966	10,165
		Third quarter		Fourth quarter			
		Quantity	Value	Quantity	Value		
	Total.....	276,297	1,600,005	265,943	1,575,234		
22710 00	Woven carpet and rugs.....	3,870	57,166	3,540	51,379		
22720 01	Tufted carpet and rugs.....	261,181	1,499,586	253,191	1,487,043		
22720 03	Scatter rugs, bathmats, and sets (rugs 6' x 9' and smaller)	16,609	72,163	17,228	70,676		
22720 09	Roll goods and rugs larger than 6' x 9', excluding artificial grass.....	223,546	1,336,899	214,651	1,323,066		
22720 25	Tufted artificial grass for nonathletic surface.....	4,434	12,748	3,097	8,960		
	Automobile and aircraft carpeting.....	16,892	77,776	18,215	84,341		
22790 10	Other carpet and rugs.....	10,946	43,253	9,212	36,812		
22790 74	Knitted.....	1,850	15,030	1,241	10,457		
22790 79	Needle punched.....	7,044	17,192	5,598	13,485		
	Braided, hooked, and other carpet and rugs n.e.c.....	2,052	11,031	2,373	12,870		

N.e.c. Not elsewhere classified.

Table 4. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF CARPET AND RUGS: 1985

(Quantity in millions of square yards; value and calculated import duty in millions of dollars)

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise ¹	Percent exports to manufacturers' shipments	Imports for consumption ³		Apparent consumption ⁵		Percent imports to apparent consumption		
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
	Carpet and rugs.....	1,159.2	6,605.7	24.8	165.1	143.4	2.1	2.5	53.6	357.4	1,188.0	6,798.0
22710	Woven carpet and rugs.....	15.2	227.8	4.2	31.3	27.2	27.6	13.7	10.1	133.1	21.1	329.6
22720	Tufted carpet and rugs.....	1,099.4	6,244.7	17.8	117.5	102.0	1.6	1.9	19.8	127.3	1,101.4	6,234.5
22790	Other carpet and rugs.....	44.5	153.2	2.8	16.3	14.2	6.3	10.7	23.7	97.0	65.4	233.9

Note: Comparison of SIC-based codes with Schedule B export numbers and TSUSA import numbers is shown in table 5.

¹Source: Bureau of the Census report EM 546, U.S. Exports.²These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (0.8684 for industry group 227) are based on data for 1981 which are published in M81(AS)-5, Origin of Exports of Manufactured Products, appendix B.³Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.⁴This dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁵Apparent consumption is derived by subtracting exports from the total manufacturers' shipments plus imports.

Table 5. COMPARISON OF SIC CODES, TSUSA IMPORT NUMBERS, AND SCHEDULE B EXPORT NUMBERS

Product code	Product description	Import number	Export number
22710	Woven carpet and rugs.....	360.2000, 360.2500, 360.3000, 360.3500, 360.3600, 360.4000, 360.4215, 360.4225, 360.4330, 360.4335, 360.4440, 360.4445, 360.4815, 360.4825, 360.4830, 360.4835, 360.4850, 360.4855, 360.4500, 360.4700	360.8510, 360.8514, 360.8516, 360.8521, 360.8541, 360.8561
22720	Tufted carpet and rugs.....	360.6500, 360.7000, 360.7600, 360.7700, 360.7800, 360.7900, 360.8100, 360.8200, 360.8300, 360.8400, 361.9000	360.8010, 360.8021, 360.8041, 360.8061, 360.8081
22790	Other carpet and rugs.....	361.0510, 361.0520, 361.0530, 361.0540, 361.1000, 361.1820, 361.1840, 361.2100, 361.2300, 361.2405, 361.2410, 361.2600, 361.4200, 361.4300, 361.4500, 361.4600, 361.4800, 361.5000, 361.5200, 361.5300, 361.5420, 361.5426, 361.5610, 361.5620, 361.5630, 361.5650, 361.5660, 361.6000, 361.7010, 361.7020, 361.7030, 361.7060	360.9510, 360.9515, 360.9521, 360.9541, 360.9561

Source: Bureau of the Census, TM 145-X, U.S. Imports for Consumption and General Imports, and EM-546, U.S. Exports.

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers all companies manufacturing carpet and rugs in the United States, except very small companies (generally less than 5 employees), for which 1982 Census of Manufactures data were derived from administrative records of other Government agencies.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ22Q, Carpet and Rugs. The survey panel includes all known manufacturers of carpet and rugs (except those very small firms excluded from the scope of the survey). Approximately 240 companies are included.

Participation in the quarterly survey is voluntary. However, annual reports are required from those companies that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These non-sampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which failed the edit. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous quarters may be revised as the result of corrected data from respondents, including the receipt of late reports for which imputations were made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Materials Consumed. These data include primary and secondary backing materials consumed in the manufacture of rugs, carpet, and carpeting. Materials consumed by commission plants are included in the report of the company for which the work is done. It should be noted that these data represent all materials consumed during the period; whereas, shipments data represent products physically shipped during the period.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- **Domestic Output**—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.
- **Exports**—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values

reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- **Imports** — Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Import and Export Transactions. Detailed commodity information is not included for individual export shipments valued at not more than \$1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than \$1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than \$250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

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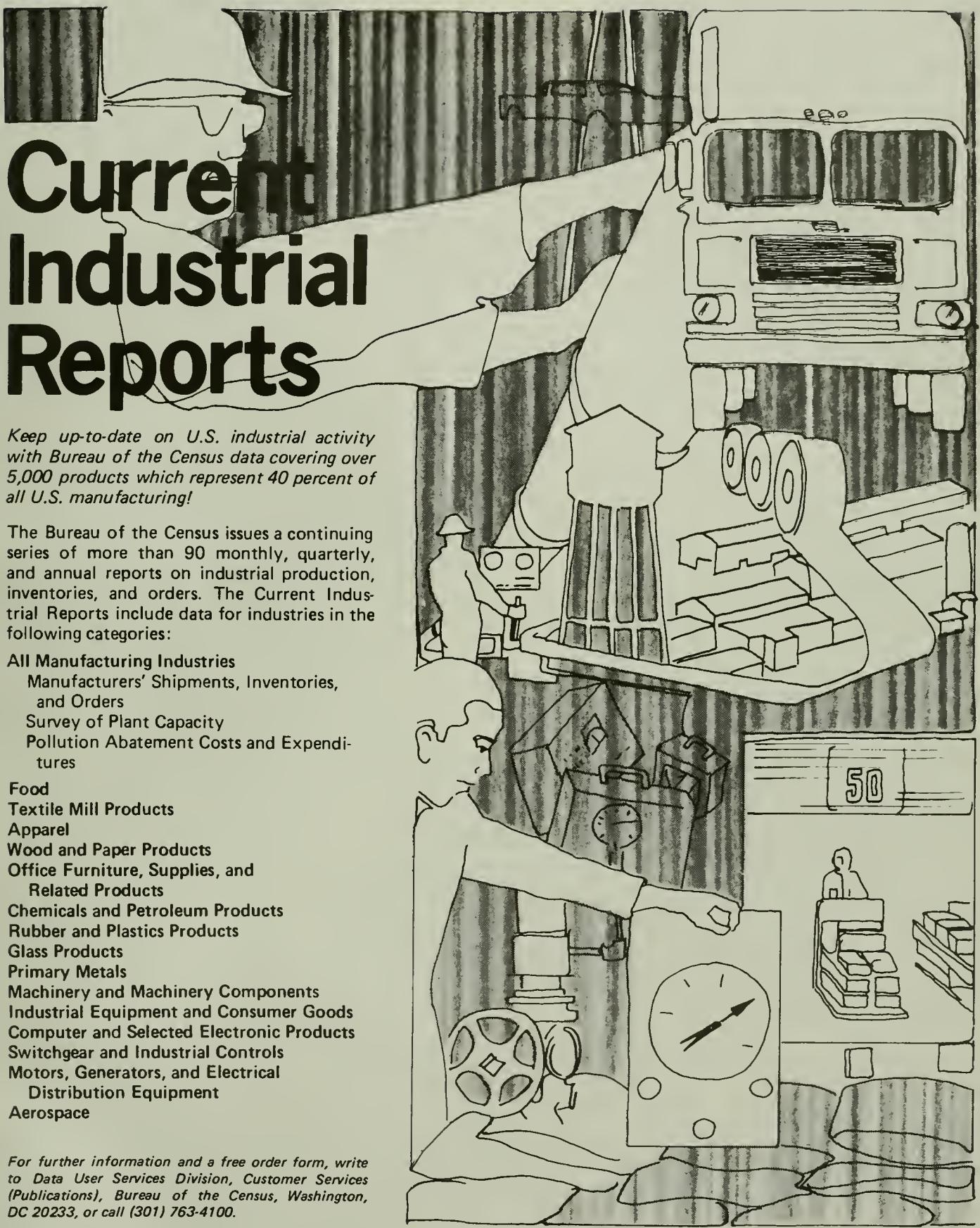
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(AS)	Annually	<i>Annual Survey of Manufactures (ASM)</i>	INDUSTRY FINANCING		
(MC)	Quinquennially	<i>Census of Manufactures</i>	This survey is funded, in part, by the Carpet and Rug Institute.		
<i>Foreign Trade Reports</i>			ACKNOWLEDGMENTS		
EM410	Monthly	<i>U.S. Exports—Schedule E—Commodity by Country</i>	This report was prepared in the Industry Division, Bureau of the Census, under the direction of Carole A. Ambler, Chief, Current Nondurables Branch, and Judy Dodds, Chief, Textile and Apparel Section. Valerie Strang was directly responsible for the review and preparation of this report. Gaylord Worden, Chief, of the Division, and Thomas L. Mesenbourg, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.		
FT135	Monthly	<i>U.S. General Imports—Schedule A—Commodity by Country</i>			



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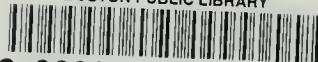
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